SIEMENS

Data sheet

6ES7431-7QH00-0AB0



SIMATIC S7-400, analog input SM 431, isolated 16 Al; resolution 16 bit, U/I/Resistor/Thermocouple/Pt100 , alarm, diagnostics

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V; Only required for supplying 2-wire transmitters
 Reverse polarity protection 	Yes
Input current	
from load voltage L+ (without load), max.	400 mA; for 16 connected, fully controlled 2-wire transmitters
from backplane bus 5 V DC, max.	700 mA
Power loss	
Power loss, typ.	4.5 W
Analog inputs	
Number of analog inputs	16
For voltage/current measurement	16
• For resistance measurement	8
permissible input voltage for voltage input (destruction limit), max.	18 V; 18 V continuous, 75 V for 1 ms (mark to space ratio 1:20)
permissible input current for current input (destruction limit), max.	40 mA
Constant measurement current for resistance-type transmitter, typ.	1.67 mA
Input ranges	
Voltage	Yes
Current	Yes
Thermocouple	Yes
Resistance thermometer	Yes
Resistance	Yes
Input ranges (rated values), voltages	
• 1 V to 5 V	Yes
— Input resistance (1 V to 5 V)	1 ΜΩ
• -1 V to +1 V	Yes
— Input resistance (-1 V to +1 V)	1 ΜΩ
• -10 V to +10 V	Yes
 Input resistance (-10 V to +10 V) 	1 ΜΩ
• -2.5 V to +2.5 V	Yes
- Input resistance (-2.5 V to +2.5 V)	1 ΜΩ
• -25 mV to +25 mV	Yes
 Input resistance (-25 mV to +25 mV) 	1 ΜΩ
• -250 mV to +250 mV	Yes
 Input resistance (-250 mV to +250 mV) 	1 ΜΩ
• -5 V to +5 V	Yes
— Input resistance (-5 V to +5 V)	1 ΜΩ

• binN to #30 mV Vel - input resistance (40 mV to 400 mV) 1 MQ • 60 mV to 400 mV Vel - input resistance (40 mV to 400 mV) 1 MQ • 00 mV to 400 mV Vel - input resistance (10 mV to 400 mV) 1 MQ • 00 mQ to 400 mV Vel - input resistance (10 mV to 400 mV) 0 D • 00 mQ to 400 mV Vel • 10 mQ to 800 mV Vel		
• • • 500 mV is • 500 mV Yes - Input resistance (40 mV is + 80 mV) Yes - Input resistance (50 mV is + 80 mV) Yes • 10 50 mA Yes - Input resistance (10 mX is + 80 mV) 50 0 • 10 mA is + 10 mA Yes - Input resistance (10 mX is + 10 mA) 50 0 • 0 mA is + 20 mA Yes - Input resistance (10 mX is + 10 mA) 50 0 • 0 mA is + 20 mA Yes - Input resistance (10 mX is + 10 mA) 50 0 • Input resistance (10 mX is + 10 mA) 50 0 • Input resistance (10 mX is + 20 mA) 50 0 • Input resistance (10 mX is + 50 mA) 50 0 • Input resistance (10 mX is + 50 mA) 50 0 • Input resistance (10 mX is + 50 mA) 50 0 • Input resistance (10 mX is + 50 mA) 50 0 • Input resistance (10 mX is + 50 mA) Yes • Input resistance (10 mX is + 50 mA) Yes • Input resistance (10 mX is + 50 mA) Yes • Input resistance (10 mX is + 50 mA) Yes • Input resistance (10 mX is + 50 mA) Yes • Input resistance (10	• -50 mV to +50 mV	Yes
- Input residence (-50 mV 0 - 50 mV) 1 M0 Impact residence (-50 mV 10 + 80 mV) 1 M0 Impact residence (-50 mV 10 + 80 mV) 1 M0 Impact residence (-50 mV 10 + 80 mV) 50 D - Impact residence (-50 mX 10 + 10 mA) 50 D - Impact residence (-20 mX 10 + 10 mA) 50 D - Impact residence (-20 mX 10 + 20 mA) 50 D - Impact residence (-20 mX 10 + 20 mA) 50 D - Impact residence (-20 mX 10 + 20 mA) 50 D - Impact residence (-10 mX 10 + 20 mA) 50 D - Impact residence (-10 mX 10 + 20 mA) 50 D - Impact residence (-10 mX 10 + 50 mA) 50 D - Impact residence (-10 mX 10 + 50 mA) 50 D - Impact residence (-10 mX 10 + 50 mA) 50 D - Impact residence (-10 mX 10 + 50 mA) 50 D - Impact residence (-10 mX 10 + 50 mA) 50 D - Impact residence (-10 mX 10 + 50 mA) 50 D - Impact residence (-10 mX 10 + 10 mA) 50 D - Impact residence (-10 mX 10 + 10 mA) 50 D - Impact residence (-10 mX 10 + 10 mA) 50 D - Impact residence (-10 mX 10 + 10 mA) 50 D		
• A my (n = 40 my (n		
- Imput residence (40 mV 16 +80 mV) 1MD imput residence (40 mX 10 mX) 50 D - Imput residence (10 mX 10 mX)		
Input registion (status) surgers Ves • 0 to 20 mA Ves - input registione (10 mA to +10 mA) S0 D • 0 to A to +10 mA Yes - input registione (10 mA to +20 mA) S0 D • 0 to 20 mA Yes - input registione (20 mA to +20 mA) S0 D • 0 to 20 mA Yes - input registione (3 mA to +20 mA) S0 D • 0 to 20 mA Yes - input registione (4 mA to 20 mA) S0 D • mA to +5 mA Yes - input registione (4 mA to 20 mA) S0 D • Input registione (5 mA to +5 mA) Yes - input registione (Type B) 1 MD • Type E Yes - input registione (Type B) 1 MD • Type K Yes - input registione (Type K) 1 MD • Type K Yes - input registione (Type K) 1 MD • Type K Yes - input registione (Type K) 1 MD • Type K Yes - input registione (Type K) 1 MD • T		
• (b 20 mA Yes Input resistance (10 mA to +10 mA) 50 0 • • 10 mA to +10 mA Yes Input resistance (10 mA to +10 mA) 50 0 • 20 mA Yes Input resistance (20 mA to +20 mA) 50 0 • 4 mA to 20 mA Yes Input resistance (20 mA to +20 mA) 50 0 • 4 mA to 20 mA Yes Input resistance (20 mA to +5 mA) 50 0 • 6 mA to +5 mA Yes Input resistance (7 yes B) 1 MD • 1/yes B Yes Input resistance (7 yes B) 1 MD • 1/ype I Yes Input resistance (7 yes K) 1 MD • 1/ype I Yes Input resistance (7 yes K) 1 MD • 1/ype I Yes Input resistance (7 yes K) 1 MD • 1/ype I Yes Input resistance (7 yes K) 1 MD • 1/ype I Yes Input resistance (7 yes K) 1 MD • 1/ype I Yes Input resistance (7 yes K)		1 ΜΩ
- I on Ain Yes - Input resistance (10 mA to +10 mA) 50 Ω - 20 mA to +20 mA Yes - Input resistance (20 mA to +20 mA) 50 Ω - 4 mA to 20 mA Yes - Input resistance (4 mA to 20 mA) 50 Ω - 5 mA to -5 mA Yes - Input resistance (17 MB to 20 mA) 50 Ω - Ford resistance (17 MB to 20 mA) 50 Ω - Input resistance (17 MB to 20 mA) 50 Ω - Input resistance (17 MB to 20 mA) 50 Ω - Input resistance (17 MB to 20 mA) 50 Ω - Input resistance (17 MB to 20 mA) 50 Ω - Input resistance (17 MB to 20 mA) 100 - Type B Yes - Input resistance (17 MB to 20 mA) 100 - Type I Yes - Input resistance (17 MB to 20 mA) 100 - Type I Yes - Input resistance (17 MB to 20 mA) Yes - Input resistance (17 MB to 20 mA) Yes - Input resistance (17 MB to 20 mA) Yes - Input resistance (17 MB to 20 mA) Yes - Input resistance (17 MB to 20 mA) <td></td> <td></td>		
- 20 m/s b +20 m/s Yes - Input resistance (20 m/s b +20 m/s) 50 Ω Input resistance (4 m/s b 20 m/s) 50 Ω Input resistance (4 m/s b 20 m/s) 50 Ω Input resistance (5 m/s to +5 m/s) 50 Ω Input resistance (Type B) Yes Input resistance (Type B) Yes Input resistance (Type B) Yes Input resistance (Type F) Yes Input resistance (Type K) Yes Input resistance (Ye K) Yes <t< td=""><td></td><td></td></t<>		
• 4 mA to 20 mA Yes - hop to resistance (4 mA to 20 mA) 50 Ω • - mout resistance (5 mA to +5 mA) 50 Ω • Input resistance (5 mA to +5 mA) 50 Ω • Input resistance (Type B) 1 MΩ • Type B Yes - Input resistance (Type D) 1 MΩ • Type K Yes - Input resistance (Type D) Yes - Input resistance (Type L) 1 MΩ • Type K Yes - Input resistance (Type L) 1 MΩ • Type K Yes - Input resistance (Type L) 1 MΩ • Type K Yes - Input resistance (Type L) 1 MΩ • Type R Yes - Input resistance (Type N) 1 MΩ • Type R Yes - Input resistance (Type N) 1 MΩ • Type T Yes - Input resistance (Type N) 1 MΩ • Type T Yes - Input resistance (Type N) 1 MΩ • Type T Yes - Input resistance (Type N) 1 MΩ <td></td> <td></td>		
5 mA to -5 mA Yes Input resistance (5 mA to +5 mA) 50 U Fight resistance (Type B) Yes Input resistance (Type B) 1MQ •.Type E Yes Input resistance (Type D) 1MQ •.Type E Yes Input resistance (Type D) 1MQ •.Type K Yes Input resistance (Type K) 1MQ •.Type K Yes Input resistance (Type K) 1MQ •.Type K Yes Input resistance (Type K) 1MQ •.Type N Yes Input resistance (Type K) 1MQ •.Type N Yes Input resistance (Type K) 1MQ •.Type S Yes Input resistance (Type R) Yes Input resistance (Type T) 1MQ •.Type U Yes Input resistance (Type T) Yes Input resistance (Type T) Yes Input resistance (Type U) Yes Input resistance (N1000) Yes		
Input ranges (rated values), thermocouples • Type B Yes - Input resistance (Type B) 1 MΩ • Type E Yes - Input resistance (Type B) 1 MΩ • Type J Yes - Input resistance (Type K) 1 MΩ • Type K Yes - Input resistance (Type K) 1 MΩ • Type K Yes - Input resistance (Type K) 1 MΩ • Type R Yes - Input resistance (Type N) 1 MΩ • Type R Yes - Input resistance (Type N) 1 MΩ • Type R Yes - Input resistance (Type N) 1 MΩ • Type S Yes - Input resistance (Type N) 1 MΩ • Type S Yes - Input resistance (Type T) 1 MΩ • Type U Yes - Input resistance (Type U) Yes - Input resistance (Type U) 1 MΩ • Input resistance (Ni 100) 1 MΩ • Ni 100 Yes - Input resistance (Ni 100)		
• Type B Yes — Input resistance (Type B) 1 MΩ • Type E Yes — Input resistance (Type B) 1 MΩ • Type J Yes — Input resistance (Type A) 1 MΩ • Type K Yes — Input resistance (Type K) 1 MΩ • Type K Yes — Input resistance (Type K) 1 MΩ • Type R Yes — Input resistance (Type N) 1 MΩ • Type R Yes — Input resistance (Type N) 1 MΩ • Type R Yes — Input resistance (Type N) 1 MΩ • Type F Yes — Input resistance (Type N) 1 MΩ • Type F Yes — Input resistance (Type S) 1 MΩ • Type U Yes — Input resistance (Type U) 1 MΩ • Input resistance thermometer 1 MΩ • Input resistance (Ni 100) 1 MΩ • Input resistance (Ni 100) 1 MΩ • Input resistance (Ni 1000) Yes — I		50 Ω
• Type E Yes — Input resistance (Type E) 1 MΩ • Type J Yes — Input resistance (type J) 1 MΩ • Type K Yes — Input resistance (Type K) 1 MΩ • Type L Yes — Input resistance (Type K) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type T Yes — Input resistance (Type S) 1 MΩ • Type T Yes — Input resistance (Type S) 1 MΩ • Type U Yes — Input resistance (Type U) 1 MΩ • Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes — Input resistance (PI 100) 1 MΩ • PI 100 Yes — Input resistance (PI 100) 1 MΩ <t< td=""><td></td><td></td></t<>		
- Input resistance (Type E) 1 MΩ • Type J Yes - Input resistance (type J) 1 MΩ • Type K Yes - Input resistance (Type K) 1 MΩ • Type L Yes - Input resistance (Type L) 1 MΩ • Type R Yes - Input resistance (Type R) 1 MΩ • Type R Yes - Input resistance (Type R) 1 MΩ • Type R Yes - Input resistance (Type R) 1 MΩ • Type S Yes - Input resistance (Type S) 1 MΩ • Type U Yes - Input resistance (Type U) Yes - Input resistance (Ni 100) 1 MΩ • Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Ni 100 Yes - Input resistance (Ni 1000) 1 MΩ • Ni 100 Yes - Input resistance (PI 100) 1 MΩ • PI 100 Yes - Input resistance (PI 100) 1 MΩ • PI 200		
• Type J Yes — Input resistance (type J) 1 MΩ • Type K Yes — Input resistance (Type K) 1 MΩ • Type L Yes — Input resistance (Type N) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type R Yes — Input resistance (Type S) 1 MΩ • Type T Yes — Input resistance (Type S) 1 MΩ • Type T Yes — Input resistance (Type S) 1 MΩ • Type T Yes — Input resistance (Type U) Yes — Input resistance (Type U) Yes — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes — Input resistance (PI 100) 1 MΩ • Pi 100 Yes — Input resistance (PI 100) 1 MΩ • Pi 200 Yes — Input resistance (PI 100) 1 MΩ • Pi 200 Yes — Input resistance (PI 200) Yes — Input resistance (No 48 ohms) 1 MΩ • Pi 200		
. I MΩ • Type K Yes - Input resistance (Type K) I MΩ • Type L Yes - Input resistance (Type L) I MΩ • Type N Yes - Input resistance (Type R) I MΩ • Type R Yes - Input resistance (Type R) I MΩ • Type S Yes - Input resistance (Type R) I MΩ • Type S Yes - Input resistance (Type S) I MΩ • Type T Yes - Input resistance (Type T) I MΩ • Type T Yes - Input resistance (Type U) Yes - Input resistance (Ni 100) I MΩ • Ni 100 Yes - Input resistance (Ni 100) I MΩ • Ni 100 Yes - Input resistance (Ni 100) I MΩ • Pit 100 Yes - Input resistance (Pi 100) I MΩ • Pit 200 Yes - Input resistance (Pi 200) Yes - Input resistance (Pi 500) I MΩ <td></td> <td></td>		
• Type K Yes — Input resistance (Type K) 1 MΩ • Type L Yes — Input resistance (Type L) 1 MΩ • Type N Yes — Input resistance (Type R) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type R Yes — Input resistance (Type S) 1 MΩ • Type T Yes — Input resistance (Type T) 1 MΩ • Type U Yes — Input resistance (Type T) 1 MΩ • Type U Yes — Input resistance (Type U) 1 MΩ • Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Ni 1000 Yes — Input resistance (Ni 1000) 1 MΩ • Ni 1000 Yes — Input resistance (Ni 1000) 1 MΩ • Pt 100 Yes — Input resistance (Pt 100) 1 MΩ • Pt 100 Yes — Input resistance (Pt 200) 1 MΩ • Pt 200 Yes — Input resistance (Pt 200) 1 MΩ • Pt 200 Yes — Input resistance (Pt 200) 1 MΩ • Pt 200 Yes — Input resistance (Pt 200) Yes		
· · - Input resistance (Type K) 1 MΩ • Type L Yes - Input resistance (Type L) 1 MΩ • Type N Yes - Input resistance (Type N) 1 MΩ • Type R Yes - Input resistance (Type R) 1 MΩ • Type S Yes - Input resistance (Type S) 1 MΩ • Type T Yes - Input resistance (Type T) 1 MΩ • Type T Yes - Input resistance (Type T) 1 MΩ • Type T Yes - Input resistance (Type U) 1 MΩ • Type U Yes - Input resistance (Type U) 1 MΩ • Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Ni 1000 Yes - Input resistance (Ni 1000) 1 MΩ • Pi 100 Yes - Input resistance (Pi 100) 1 MΩ • Pi 200 Yes - Input resistance (Pi 200) 1 MΩ • Pi 200 Yes		
• Type L Yes — Input resistance (Type L) 1 MΩ • Type N Yes — Input resistance (Type N) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type S Yes — Input resistance (Type R) 1 MΩ • Type S Yes — Input resistance (Type S) 1 MΩ • Type J Yes — Input resistance (Type T) 1 MΩ • Type U Yes — Input resistance (Type U) 1 MΩ Input resistance (Ni 100) 1 MΩ • Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Pit 100 Yes — Input resistance (Pi 100) 1 MΩ • Pit 200 Yes — Input resistance (Pi 100) 1 MΩ • Pit 200 Yes — Input resistance (Pi 200) 1 MΩ • Pit 500 Yes — Input resistance (Pi 00) 1		
— Input resistance (Type L) 1 MΩ • Type N Yes — Input resistance (Type N) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type S Yes — Input resistance (Type S) 1 MΩ • Type T Yes — Input resistance (Type T) 1 MΩ • Type T Yes — Input resistance (Type U) 1 MΩ • Type T Yes — Input resistance (Type U) 1 MΩ • Type U Yes — Input resistance (Type U) 1 MΩ • Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes — Input resistance (PI 100) 1 MΩ • Pt 100 Yes — Input resistance (PI 100) 1 MΩ • Pt 200 Yes — Input resistance (PI 200) 1 MΩ • Pt 500 Yes — Input resistance (PI 500) 1		
• Type N Yes — Input resistance (Type N) 1 MΩ • Type R Yes — Input resistance (Type R) 1 MΩ • Type S Yes — Input resistance (Type S) 1 MΩ • Type T Yes — Input resistance (Type T) 1 MΩ • Type U Yes — Input resistance (Type T) 1 MΩ • Type U Yes — Input resistance (Type U) 1 MΩ • Type U Yes — Input resistance (Type U) 1 MΩ • Type U Yes — Input resistance (Type U) 1 MΩ • Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Ni 100 Yes — Input resistance (Ni 1000) 1 MΩ • Pt 100 Yes — Input resistance (Pt 100) 1 MΩ • Pt 200 Yes — Input resistance (Pt 200) 1 MΩ • Pt 500 Yes — Input resistance (Pt 500) 1 MΩ • Dto 48 ohms Yes — Input resistance (0 to 150 ohms) 1 MΩ		
- I MΩ • Type R Yes - Input resistance (Type R) I MΩ • Type S Yes - Input resistance (Type S) I MΩ • Type T Yes - Input resistance (Type T) I MΩ • Type U Yes - Input resistance (Type U) I MΩ • Type U Yes - Input resistance (Type U) I MΩ • Ni 100 Yes - Input resistance (Type U) I MΩ • Ni 100 Yes - Input resistance (Type U) I MΩ • Ni 100 Yes - Input resistance (Ni 100) I MΩ • Ni 100 Yes - Input resistance (Ni 100) I MΩ • Ni 100 Yes - Input resistance (Ni 100) I MΩ • Pit 100 Yes - Input resistance (Pt 100) I MΩ • Pit 100 Yes - Input resistance (Pt 200) I MΩ • Pit 500 Yes - Input resistance (Pt 500) Yes - Input resistance (0 to 48 ohms) Yes - Input resistance (0 to 150 ohms)	— Input resistance (Type L)	
• Type R Yes - Input resistance (Type R) 1 MΩ • Type S Yes - Input resistance (Type S) 1 MΩ • Type T Yes - Input resistance (Type T) 1 MΩ • Type I Yes - Input resistance (Type T) 1 MΩ • Type (U) Yes - Input resistance (Type U) 1 MΩ • Ni too Yes - Input resistance (thermometer - • Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Pt 100 Yes - Input resistance (Pt 100) 1 MΩ • Pt 200 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ • Dib 48 ohms Yes - Input resistance (0 to 48 ohms) 1 MΩ • 0 to 6 300 ohms Yes - Input resistance (0 to 48 ohms) 1 MΩ <td></td> <td></td>		
- hput resistance (Type R) 1 MΩ • Type S Yes - hput resistance (Type S) 1 MΩ • Type T Yes - hput resistance (Type T) 1 MΩ • Type U Yes - hput resistance (Type U) 1 MΩ • Type U Yes - hput resistance (Type U) 1 MΩ • Ni 100 Yes - input resistance (hi 100) 1 MΩ • Ni 100 Yes - input resistance (Ni 100) 1 MΩ • Ni 100 Yes - input resistance (Ni 100) 1 MΩ • Ni 100 Yes - input resistance (Ni 100) 1 MΩ • Pt 100 Yes - input resistance (Pt 100) 1 MΩ • Pt 100 Yes - input resistance (Pt 100) 1 MΩ • Pt 200 Yes - input resistance (Pt 200) 1 MΩ • Pt 500 Yes - input resistance (Pt 500) 1 MΩ • Dto 48 ohms Yes - input resistance (0 to 48 ohms) 1 MΩ • 0 to 6 48 ohms Yes - input resistance (0 to 50		
• Type SYes- Input resistance (Type S)1 MΩ• Type TYes- Input resistance (Type T)1 MΩ• Type UYes- Input resistance (Type U)1 MΩInput ranges (rated values), resistance thermometer1 MΩ• Ni 100Yes- Input resistance (Ni 100)1 MΩ• Ni 100Yes- Input resistance (Ni 100)1 MΩ• Ni 100Yes- Input resistance (Ni 100)1 MΩ• Pt 100Yes- Input resistance (Pt 100)1 MΩ• Pt 100Yes- Input resistance (Pt 100)1 MΩ• Pt 100Yes- Input resistance (Pt 100)1 MΩ• Pt 500Yes- Input resistance (Pt 200)1 MΩ• Pt 500Yes- Input resistance (Pt 200)1 MΩ• Pt 500Yes- Input resistance (Pt 200)1 MΩ• Input resistance (Pt 200)1 MΩ• Dt 48 ohmsYes- Input resistance (Dt 0 48 ohms)1 MΩ• 0 to 48 ohmsYes- Input resistance (D to 50 ohms)1 MΩ• 0 to 50 ohmsYes- Input resistance (D to 50 ohms)1 MΩ• 0 to 50 ohmsYes- Input resistance (D to 50 ohms)1 MΩ• 0 to 500 ohmsYes- Input resistance (D to 500 ohms)1 MΩ• 0 to 600 ohmsYes- Input resistance (D to 500 ohms)1 MΩ• 0 to 600 ohmsYes- Input resistance (D to 600 ohms) <td< td=""><td></td><td></td></td<>		
- I MΩ • Type T Yes - Input resistance (Type T) I MΩ • Type U Yes - Input resistance (Type U) I MΩ • Input resistance (Type U) I MΩ • Input resistance (type U) I MΩ • Input resistance (Ni 100) I MΩ • Ni 100 Yes - Input resistance (Ni 100) • Ni 100 Yes - Input resistance (Ni 100) • Ni 100 Yes - Input resistance (Ni 100) • Ni 100 Yes - Input resistance (Ni 100) • Pt 100 Yes - Input resistance (Pi 100) • Pt 100 Yes - Input resistance (Pi 100) • Pt 200 Yes - Input resistance (Pi 200) • Pt 200 Yes - Input resistance (Pi 500) • Not resistance (Pi 500) 1 MΩ • O to 48 ohms Yes - Input resistance (0 to 48 ohms) • O to 50 ohms Yes		
• Type TYes- Input resistance (Type T)1 MΩ• Type UYes- Input resistance (Type U)1 MΩInput resistance (Type U)• Ni 100Yes- Input resistance (Ni 100)1 MΩ• Ni 100Yes- Input resistance (Ni 100)1 MΩ• Pit 100Yes- Input resistance (Ni 100)1 MΩ• Pit 100Yes- Input resistance (Ni 100)1 MΩ• Pit 100Yes- Input resistance (Pt 100)1 MΩ• Pit 200Yes- Input resistance (Pt 100)1 MΩ• Pit 200Yes- Input resistance (Pt 500)1 MΩ• Pit 500Yes- Input resistance (Pt 500)1 MΩ• Pit 500Yes- Input resistance (Pt 500)1 MΩ• Input resistance (Pt 500)1 MΩ• Pit 500Yes- Input resistance (Pt 500)1 MΩ• Input resistance (Dt 0 48 ohms)1 MΩ• 0 to 150 ohmsYes- Input resistance (0 to 150 ohms)1 MΩ• 0 to 150 ohmsYes- Input resistance (0 to 150 ohms)1 MΩ• 0 to 500 ohmsYes- Input resistance (0 to 150 ohms)1 MΩ• 0 to 600 ohmsYes- Input resistance (0 to 300 ohms)Yes- Input resistance (0 to 600 ohms)Yes <td></td> <td></td>		
	— Input resistance (Type S)	
• Type U Yes - Input resistance (Type U) 1 MΩ Input ranges (rated values), resistance thermometer - • Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Pi 100 Yes - Input resistance (PI 100) 1 MΩ • Pi 100 Yes - Input resistance (PI 100) 1 MΩ • Pi 100 Yes - Input resistance (PI 100) 1 MΩ • Pi 100 Yes - Input resistance (PI 1000) 1 MΩ • Pi 500 Yes - Input resistance (PI 500) 1 MΩ • Pi 500 Yes - Input resistance (P5 500) 1 MΩ • Pi 500 Yes - Input resistance (0 to 48 ohms) 1 MΩ • O to 48 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • O to 150 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • O to 600 ohms Yes <		
- Input resistance (Type U) 1 MΩ Input ranges (rated values), resistance thermometer Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Ni 1000 Yes - Input resistance (Ni 100) 1 MΩ • Pi 100 Yes - Input resistance (Ni 100) 1 MΩ • Pi 100 Yes - Input resistance (Pt 100) 1 MΩ • Pt 1000 Yes - Input resistance (Pt 100) 1 MΩ • Pt 200 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ • Pt 500 Yes - Input resistance (0 to 48 ohms) 1 MΩ • 0 to 48 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • 0 to 500 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 300 ohms) Yes		
Input ranges (rated values), resistance thermometer • Ni 100 Yes - Input resistance (Ni 100) 1 MΩ • Ni 1000 Yes - Input resistance (Ni 1000) 1 MΩ • Pt 100 Yes - Input resistance (Ni 1000) 1 MΩ • Pt 100 Yes - Input resistance (Pt 100) 1 MΩ • Pt 1000 Yes - Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ Input ranges (rated values), resistors Yes • O to 48 ohms Yes - Input resistance (0 to 48 ohms) 1 MΩ • O to 150 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • O to 300 ohms Yes - Input resistance (0 to 500 ohms) 1 MΩ • O to 600 ohms Yes - Input resistance (0 to 500 ohms)		
• Ni 100 Yes — Input resistance (Ni 100) 1 MΩ • Ni 1000 Yes — Input resistance (Ni 1000) 1 MΩ • Pt 100 Yes — Input resistance (Ni 1000) 1 MΩ • Pt 100 Yes — Input resistance (Pt 100) 1 MΩ • Pt 1000 Yes — Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes — Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes — Input resistance (Pt 200) 1 MΩ • Pt 500 Yes — Input resistance (Pt 500) 1 MΩ • Pt 500 Yes — Input resistance (Pt 500) 1 MΩ • O to 48 ohms Yes — Input resistance (0 to 48 ohms) 1 MΩ • O to 150 ohms Yes — Input resistance (0 to 150 ohms) 1 MΩ • O to 300 ohms Yes — Input resistance (0 to 150 ohms) 1 MΩ • O to 300 ohms Yes — Input resistance (0 to 300 ohms) 1 MΩ <tr< td=""><td></td><td>1 ΜΩ</td></tr<>		1 ΜΩ
- Input resistance (Ni 100) 1 MΩ - Input resistance (Ni 1000) 1 MΩ - Pt 100 Yes - Input resistance (Pt 100) 1 MΩ - Pt 100 Yes - Input resistance (Pt 100) 1 MΩ - Pt 100 Yes - Input resistance (Pt 100) 1 MΩ - Pt 200 Yes - Input resistance (Pt 200) 1 MΩ - Pt 500 Yes - Input resistance (Pt 200) 1 MΩ - Pt 500 Yes - Input resistance (Pt 200) 1 MΩ - Input resistance (Pt 500) Yes - Input resistance (0 to 48 ohms) 1 MΩ 0 to 48 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ 0 to 150 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ 0 to 600 ohms Yes - Input resistance (0 to 600 ohms) Yes - Input resista		
• Ni 1000 Yes — Input resistance (Ni 1000) 1 MΩ • Pt 100 Yes — Input resistance (Pt 100) 1 MΩ • Pt 1000 Yes — Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes — Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes — Input resistance (Pt 200) 1 MΩ • Pt 500 Yes — Input resistance (Pt 500) 1 MΩ • Pt 500 Yes — Input resistance (Pt 500) 1 MΩ • Pt 500 Yes — Input resistance (Pt 500) 1 MΩ • Do to 48 ohms Yes — Input resistance (0 to 48 ohms) 1 MΩ • 0 to 48 ohms Yes — Input resistance (0 to 150 ohms) 1 MΩ • 0 to 500 ohms Yes — Input resistance (0 to 150 ohms) 1 MΩ • 0 to 300 ohms Yes — Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes — Input resistance (0 to 600 ohms) Yes <		
- Input resistance (Ni 1000) 1 MΩ • Pt 100 Yes - Input resistance (Pt 100) 1 MΩ • Pt 1000 Yes - Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ • Dto 48 ohms Yes - Input resistance (0 to 48 ohms) 1 MΩ • 0 to 50 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • 0 to 500 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 600 ohms) 1 MΩ		
• Pt 100 Yes - Input resistance (Pt 100) 1 MΩ • Pt 1000 Yes - Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ • Dto 48 ohms Yes - Input resistance (0 to 48 ohms) 1 MΩ • 0 to 150 ohms Yes - Input resistance (0 to 500 ohms) 1 MΩ • 0 to 300 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • 0 to 300 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 600 ohms) 1 MΩ		
- Input resistance (Pt 100)1 MΩ• Pt 1000Yes- Input resistance (Pt 1000)1 MΩ• Pt 200Yes- Input resistance (Pt 200)1 MΩ• Pt 500Yes- Input resistance (Pt 500)1 MΩInput resistance (Pt 500)1 MΩInput ranges (rated values), resistorsYes- Input resistance (0 to 48 ohms)Yes- Input resistance (0 to 48 ohms)1 MΩ• 0 to 48 ohmsYes- Input resistance (0 to 150 ohms)1 MΩ• 0 to 300 ohmsYes- Input resistance (0 to 150 ohms)1 MΩ• 0 to 500 ohmsYes- Input resistance (0 to 300 ohms)1 MΩ• 0 to 600 ohmsYes- Input resistance (0 to 300 ohms)1 MΩ• 0 to 600 ohmsYes- Input resistance (0 to 600 ohms)1 MΩ		
• Pt 1000 Yes - Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ • Dt 048 ohms Yes • 0 to 48 ohms Yes - Input resistance (0 to 48 ohms) 1 MΩ • 0 to 150 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 300 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ		
- Input resistance (Pt 1000) 1 MΩ • Pt 200 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ Input resistance (Pt 500) 1 MΩ Input resistance (Pt 500) 1 MΩ - Input resistance (Pt 500) 1 MΩ Input resistance (Pt 500) Yes - Input resistance (0 to 48 ohms) 1 MΩ - Input resistance (0 to 48 ohms) 1 MΩ - Input resistance (0 to 150 ohms) Yes - Input resistance (0 to 150 ohms) Yes - Input resistance (0 to 300 ohms) Yes - Input resistance (0 to 300 ohms) Yes - Input resistance (0 to 300 ohms) 1 MΩ - O to 600 ohms Yes - Input resistance (0 to 600 ohms) 1 MΩ		
• Pt 200 Yes - Input resistance (Pt 200) 1 MΩ • Pt 500 Yes - Input resistance (Pt 500) 1 MΩ Input resistance (Pt 500) • O to 48 ohms Yes - Input resistance (0 to 48 ohms) 1 MΩ - Input resistance (0 to 48 ohms) 1 MΩ - Input resistance (0 to 48 ohms) Yes - Input resistance (0 to 150 ohms) 1 MΩ - Input resistance (0 to 150 ohms) Yes - Input resistance (0 to 150 ohms) 1 MΩ - Input resistance (0 to 300 ohms) Yes - Input resistance (0 to 300 ohms) Yes - Input resistance (0 to 600 ohms) Yes - Input resistance (0 to 600 ohms) Yes		
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• Pt 500Yes- Input resistance (Pt 500)1 MΩInput ranges (rated values), resistorsYes• 0 to 48 ohmsYes- Input resistance (0 to 48 ohms)1 MΩ• 0 to 150 ohmsYes- Input resistance (0 to 150 ohms)1 MΩ• 0 to 300 ohmsYes- Input resistance (0 to 150 ohms)1 MΩ• 0 to 300 ohmsYes- Input resistance (0 to 300 ohms)Yes- Input resistance (0 to 300 ohms)1 MΩ• 0 to 600 ohmsYes- Input resistance (0 to 300 ohms)1 MΩ• 0 to 600 ohmsYes- Input resistance (0 to 600 ohms)1 MΩ		
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Input ranges (rated values), resistors • 0 to 48 ohms Yes - Input resistance (0 to 48 ohms) 1 MΩ • 0 to 150 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • 0 to 300 ohms Yes - Input resistance (0 to 150 ohms) 1 MΩ • 0 to 300 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ		
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- Input resistance (0 to 150 ohms) 1 MΩ • 0 to 300 ohms Yes - Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 600 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 600 ohms) 1 MΩ		
• 0 to 300 ohms Yes — Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes — Input resistance (0 to 600 ohms) 1 MΩ		Yes
- Input resistance (0 to 300 ohms) 1 MΩ • 0 to 600 ohms Yes - Input resistance (0 to 600 ohms) 1 MΩ	— Input resistance (0 to 150 ohms)	1 ΜΩ
• 0 to 600 ohms Yes — Input resistance (0 to 600 ohms) 1 MΩ	• 0 to 300 ohms	Yes
— Input resistance (0 to 600 ohms) 1 MΩ	— Input resistance (0 to 300 ohms)	1 ΜΩ
	• 0 to 600 ohms	Yes
0 to 6000 ohms Yes; Usable up to 5000 Ohm	— Input resistance (0 to 600 ohms)	1 ΜΩ
	• 0 to 6000 ohms	Yes; Usable up to 5000 Ohm

Themaculate (TC) Time The processing of processing of the procesing of the processing of the procesing of the proces	— Input resistance (0 to 6000 ohms)	1 ΜΩ
Torperature compensation Ves - external temporture companiation with P100 Yes - external temporture companiation with P100 Yes - operations account Yes - operations account Yes - operations account Yes - operations count Yes - operations count Yes - operations count Provide State		1 1144
- parameterizable - estemail tempositure compensation with P1100 - dynamic reference tempositure value - dynamic reference tempositure value - dynamic reference tempositure value - estemail tempositure compensation with P1100 - for themoscopies - estemail tempositure value - dynamic reference tempositure value - estemail tempositure		
	· · ·	Yes
external temperature compensation with compensations socket 	-	
	· ·	
Characteristic insertication Second Sec	· · ·	
Parameterizable Prove Parameterizable Prove Parameterizable Prove Pacon Pason, Pacon Pason, Pacon, Pacon, Pason, Pacon, Pacon	- dynamic reference temperature value	Yes
	Characteristic linearization	
	parameterizable	Yes
Gable length 200 m; 50 m with thermocouples and input ranges \$ 80 mV Analog value generation for the inputs 200 m; 50 m with thermocouples and input ranges \$ 80 mV Analog value generation for the inputs 16 bit; 16 / 16 / 10 Integration and conversion time/resolution per channel 16 bit; 16 / 16 / 10 Integration time, parameterizable Yes • Basic conversion time (ms) 2.5 / 16.7 / 20 ms • Integration time, parameterizable Yes • for voltage measurement in for interference 400 / 60 / 50 Hz • for current measurement as 2-wire transducer Yes • for current measurement as 2-wire transducer Yes • for current measurement as 2-wire transducer Yes • for resistance measurement with three-wire connection Yes • for resistance measurement with fue-wire connection Yes • Voltage, relative to input range, (+/-) 0.004 %tK Operational measurement with fue-wire connection Yes • Voltage, relative to input range, (+/-) 0.03 % kt 200 mV, at 220 mV, at 25 M with 4 kt 25 N, 45 V to 5 V, 10 V	— for thermocouples	Type B, E, J, K, L, N, R, S, T, U
• shielded, max. 200 m; 50 m with thermocouples and input ranges ± 80 mV Analog value generation for the inputs • Resolution with overange (bit including sign), max. 16 bit; 16 / 16 / 16 • Resolution time, prameterizable Yes • Basic conversion time (ms) 6 / 20.1 / 23.5 ms • Integration time (ms) 2,5 / 16,7 / 20 ms • Integration time (ms) 2,5 / 16,7 / 20 ms • Integration time (ms) 4,5 / 20.1 / 23.5 ms • Integration time (ms) 2,5 / 16,7 / 20 ms • Integration time (ms) 4,5 / 20.1 / 23.5 ms • Integration time (ms) 4,5 / 20.1 / 23.5 ms • Integration time (ms) 4,5 / 20.1 / 20.5 ms • for current measurement as 2-wire transducer Yes • for current measurement with two-wire connection Yes • for resistance measurement with four-wire connection Yes • for resistance measurement with four-wire connection Yes • for resistance measurement with four-wire connection Yes • Contradit empolentime over a temperature areage 0.2044 %MK • Outage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±20 mV; ±0.3 % at ±20 mV; ±0.3 % at ±20 mV; • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±00 mV; ±0.3 % at ±20 mV; • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±20 mV; ±0.3 % at ±20 mV; <td>- for resistance thermometer</td> <td>Pt100, Pt200, Pt500, Pt1000, Ni100, Ni1000</td>	- for resistance thermometer	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni1000
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Basic conversion time (ms) • Integration time, parameterizable • Integration time, ms) • Integration time (ms) • For voltage measurement • for current measurement as 4-wire transducer • for resistance measurement with four-wire connection • for resistance measurement with four-wire connection • Ves • Vestage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Thermocouple, relative to input range,	Cable length	
Integration and conversion time/resolution per channel • Resolution with overrange (bit incluing sign), max. 16 bit; 16 / 16 / 16 • Resolution time, parameterizable Yes • Basic conversion time (ms) 2, 20, 12, 23, 5 ms • Integration time (ms) 4, 20, 12, 23, 5 ms • Interpretion time (ms) 4, 20, 12, 23, 5 ms • Interpretion time (ms) 4, 20, 12, 23, 5 ms • Interpretion time (ms) 4, 20, 12, 23, 5 ms • Interpretion time (ms) 4, 20, 12, 23, 5 ms • Interpretion time (ms) 4, 20, 12, 23, 5 ms • Interpretion time (ms) 4, 20, 12, 23, 5 ms • Interpretion time (ms) 4, 20, 12, 23, 5 ms • For sublace measurement 4, 20, 12, 23, 23, 25, 16, 23, 20 ms • for current measurement with time-wire connection Yes • for resistance measurement with four-wire connection Yes • Constance measurement with thou-wire connection Yes • Constance measurement with time-wire connection Yes • Constance measurement with time vire connection Yes • Constance measurement with time-wire connection Yes • Constance measurement, with time-wire connection Yes • Constance measurement,	• shielded, max.	200 m; 50 m with thermocouples and input ranges \leq 80 mV
Resolution with overrange (bit including sign), max. If bit: 16 / 16 / 16 Yes Sease conversion time (ms) Integration time, (ms) Integration time (ms) Integration Integration time (ms) Integration Integra	Analog value generation for the inputs	
Inlegation time, parameterizable Sesic conversion time (ms) Set 167,720 ms Second time (ms) Set 167,720 ms Second time (ms) Set 167,720 ms Second time (ms) Secon	Integration and conversion time/resolution per channel	
Basic conversion time (ms) integration time (ms) integration time (ms) integration time (ms) interference frequency f1 in Hz Connection of signal encoders if of voltage measurement as 2-wire transducer if of voltage measurement as 2-wire transducer if or current measurement as 4-wire transducer Yes if or current measurement with two-wire connection if or resistance resource (relative to input range, (+/-) if or resistance, relative to input range, (+/-) if or 20 mA if a 20 mA, 450 mV, 403 % at 4250 mV, 403 % at 425 mV if a 20 mA, 450 mV, 403 % at 420 mA, 450 mV, 400 mA if a 20 mA, 450 mV, 403 mA, 450 mV, 400 mA if a 20 mA, 450 mV, 403 % at 420 mA, 450 mV, 400 mA if a 20 mA if a 20 mA, 450 mV, 400 mA if a 20 mA if a 20 mA, 450 mV, 400 mA if a 20 mA if a 20 mA, 450 mV, 400 mA if a 20 mA if a 20 mA, 450 mV, 400 mA if a 20 m	 Resolution with overrange (bit including sign), max. 	16 bit; 16 / 16 / 16
Integration time (ms) Interference votage suppression for interference requency 11 m Hz Encoder Connection of signal encoders ion or votage measurement as 2-wire transducer ion votage measurement as 2-wire transducer ion votage measurement with how-wire connection ion resistance measurement, to input range, (+/-) ion 3%; 40.3% at 420 mV; 40.4% at 0 as 00 Ohm; (2-conductor measurement), 0 to 500 Ohm; (2-	 Integration time, parameterizable 	Yes
• Inadiance voltage suppression for interference frequency finishes 400 / 60 / 50 Hz Encoder Encoder Connection of signal encoders Yes; possible • for voltage measurement Yes; possible • for voltage measurement as 2-wire transducer Yes • for voltage measurement with thore-wire connection Yes • for resistance measurement with thore-wire connection Yes • for resistance measurement with tour-wire connection Yes • for resistance measurement with tour-wire connection Yes • Corrensized velowe to input range, (+/-) 0.004 %kK Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±250 mV, ±0.3 % at ±25 mV, ±0.2 mA, 4 to 2 mA • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at 10 to 30 Ohm (4-conductor measurement), 0 to 500 Ohm (4-conductor mea	 Basic conversion time (ms) 	6 / 20,1 / 23,5 ms
Encoder Connection of signal encoders • for voltage measurement • for voltage measurement as 2-wire transducer • for current measurement as 2-wire transducer • for resistance measurement with two-wire connection • for resistance measurement with four-wire connection • Yes • Corrent (relative to input range, (+/-) 0.004 %/K Operational error limit in overall temperature enge • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±250 mV, ±0.3 % at ±25 mV • Current, relative to input range, (+/-) 0.3 %; ±0.3 % at 0 to 48 0hm (4-conductor measurement), 0 to 150 0hm (4-conductor measurement), 0 to 000 0hm; (4-conductor measurem	 Integration time (ms) 	2,5 / 16,7 / 20 ms
Encoder Connection of signal encoders for voltage measurement for current measurement as 4-wire transducer for current measurement with tworke connection for resistance measurement with tworke connection for self the origin transpe. (+/-) Current, relative to input range, (+/-) current, relative to input range, (+/-) Thermocupie, relative to input range, (+/-) Thermocupie, relative to input range, (+/-) for type I (±12 K), TC Type I (±2 X K), TC Type I (±3 X K), TC Type I (±3 X K), TC Type I (±4 X K), TC Type I (±1 X K), TC Type I (±4 X K), TC Type I (±1 X K), TC Type I (±4 X K), TC Type I (±1 X K), TC Type I (±4 X K), TC Type I (±1 X K), TC Type I (±4 X K), TC Type I (±4 X K), TC Type I (±1 X K), TC Type I (±4 X K), TC Type I (±1 X K), TC Type I (±4 X K), TC Type I (±1 X K), T		400 / 60 / 50 Hz
Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer • for current measurement as 4-wire transducer • for current measurement as 4-wire iransducer • for current measurement with the-wire connection • for resistance measurement with the-wire connection • Yes Errorsdacuracies • Coursent, relative to input range, (+/-) 0.004 %rK • Operational error (relative to input range, (+/-) 0.3 %; ±0.3 % at ±00 mV, ±0.32 % at ±20 mV, ±0.20 mA, ±0 mA,		
• for voltage measurement Yes; possible • for current measurement as 4-wire transducer Yes • for resistance measurement with two-wire connection Yes; Line resistance are also measured • for resistance measurement with three-wire connection Yes • for resistance measurement with three-wire connection Yes • for resistance measurement with four-wire connection Yes • for resistance measurement with four-wire connection Yes • for resistance measurement with four-wire connection Yes • for resistance measurement, the measurement, four ange, (+/-) 0.04%/K Operational error (limit in overall temperature range • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 • Current, relative to input range, (+/-) 0.3 %; ±0.3 % at ±250 mV, ±00 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 Ohn (4-conductor measurement), 0 to 500 Ohn (4-conductor measurement)		
• for current measurement as 2-wire transducer Ves for current measurement as 4-wire transducer Ves Ves for custance measurement with twere connection Ves Voltage, relative to input range, (+/-) Voltage, relative		Ver reesible
• for current measurement as 4-wire fransducer Yes • for resistance measurement with thwo-wire connection Yes • for resistance measurement with four-wire connection Yes • for resistance measurement with four-wire connection Yes • Temperature error (relative to input range), (+/-) 0.004 %/K Operational error limit in overall temperature range • • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, ±10 V; ±0.31 % % at ±250 mV; ±0.35 % at ±250 mV, ±0.50 % at ±25 mV • Current, relative to input range, (+/-) 0.3 %; ±0.3 % at ±200 mV, ±0.30 % at ±20 mA to 500 Ohm (4-conductor measurement), 0 to 500 Ohm (3-conductor measurement), 0 to 500		
• for resistance measurement with two-wire connection Yes; Line resistances are also measured • for resistance measurement with three-wire connection Yes • for resistance measurement with four-wire connection Yes Errosiscoursicies • Outlogs, relative to input range, (+/-) 0.004 %/K Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±260 mV; ±0.33 % at ±25 mV • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±20 mA, ±0 mA, ±10 mA, ±10 mA, ±10 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0.3 % at 0 to 48 Ohm (4-conductor measurement), 0 to 500 Ohm (4-conductor measurement), 0 to 500 Ohm (3-conductor measurement), 0 to 500 Ohm); • Resistance thermometer, relative to input range, (+/-) • Otifs %; ±0.15% at ±250 mV, ±0.23% at ±25 mV • Voltage, relative to input range, (+/-) • Otifs %; ±0.15% at ±250 mV, ±0.23% at ±25 mV		
• for resistance measurement with three-wire connection • for resistance measurement with four-wire connection Pross/accuracies Yes Errors/accuracies 0.004 %/K Operational error limit in overall temperature range 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV, ±0.35 % at ±25 mV • Voltage, relative to input range, (+/-) 0.3 %; ±0.1 0 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0.1 0 40 Chm (4-conductor measurement), 0 to 500 Chm (3-conductor) measurement), 0 to 500 Chm (3-conductor measurement), 0 to 500 Chm (3-conduct		
• for resistance measurement with four-wire connection Yes Errors/accuracies Under the second seco		
Errors/accuracios Temperature error (relative to input range). (+/-) 0.004 %/K Operational error limit in overall temperature range 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV • Current, relative to input range, (+/-) 0.3 %; ±0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0 3 % of to 20 mA, ±5 mA, ±10 mA, ±0 20 mA • Resistance thermometer, relative to input range, (+/-) 0.4 % • Thermocouple, relative to input range, (+/-) 0.4 % • Thermocouple, relative to input range, (+/-) 0.4 % • Current, relative to input range, (+/-) 0.15 %; ±0.15% at ±25 mV, ±0.23% at ±25 mV • Voltage, relative to input range, (+/-) 0.15 %; ±0.15% at ±20 mV, ±20 mA, ±0 mA, ±20 mA, ±0 mA, ±20 mA • Current, relative to input range, (+/-) 0.15 %; ±0.15% at ±20 mV, ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; ±0.15% at 0 to 48 ohm; (4-conductor measurement), 0 to 500 ohms; (4-conductor measurem		
Temperature error (relative to input range), (+/-) 0.004 %/K Operational error limit in overall temperature range 0.3 %; ±0.3 % at ±250 mV; ±0.35 % at ±25 mV • Voltage, relative to input range, (+/-) 0.3 %; ±0.3 % at ±250 mV; ±0.35 % at ±25 mV • Current, relative to input range, (+/-) 0.3 %; ±0.10 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0.10 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0.10 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance thermometer, relative to input range, (+/-) 0.3 %; ±0.10 k20 Mm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 500 Ohm (4-conductor measurement),		105
Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) 0.3 %; ±0 3 % at ±250 mV, ±0.35 % at ±25 mV • Current, relative to input range, (+/-) 0.3 %; ±0 3 % at ±250 mV, ±0.35 % at ±25 mV • Current, relative to input range, (+/-) 0.3 %; ±0 10 co 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; ±0 0 co 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance thermometer, relative to input range, (+/-) 0.3 %; ±10 to 20 mA, ±0 m30 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 500 Ohm	Ettors/accuracias	
 Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Resistance, relative to input range, (+/-) Resistance, relative to input range, (+/-) Sk; ±0.3% at ±250 mV, ±0.35% at ±25 mV O.3%; ±0.3% at ±250 mV, ±0.35% at ±25 mV O.3%; ±0.3% at ±250 mV, ±0.35% at ±25 mV O.3%; ±0.3% at 0 to 20 mA, ±5 mA, ±20 mA, ±0 20 mA Resistance, relative to input range, (+/-) Resistance thermometer, relative to input range, (+/-) Thermocouple, relative to input range, (+/-) Thermocouple, relative to input range, (+/-) Voltage, relative to input range, (+/-) Voltage, relative to input range, (+/-) Voltage, relative to input range, (+/-) Thermocouple, relative to input range, (+/-) To Type B (±1.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type B (±1.5 K), TC Type I (±4.3 K), TC Type S (±6.2 K), TC Type U (±2.8 K), TC Type I (±4.4 K) Basic error limit (operational limit at 25 °C) Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Resistance, relative to input range, (+/-) St ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.15% at ±250 mV, ±0.23% at ±25 mV Outs %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA St ±0.15% to 15% to 148 ohms (4-conductor measurement), 0 to 5000 ohm		0.004.%/K
% at ±00 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV • Current, relative to input range, (+/-) 0.3 %; at 0 to 20 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; at 0 to 20 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.3 %; at 0 to 300 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 500 Ohm (3-conductor measurement), 0 to 500 Ohm (3-conductor measurement), 0 to 50, 11 %; ±0.15% at ±25 mV • Voltage, relative to input range, (+/-) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, ±1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, ±1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; ±0.15% at 0 to 20 mA, ±50 mA, ±10 mA, ±20 mA, 4 to 20 mA • Current, relative to input	Temperature error (relative to input range), (+/-)	0.004 %/K
• Resistance, relative to input range, (+/-) 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 500 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 500 Ohm (4-conductor measurement), 0 to 500 Ohm (3-conductor measurement), 0 to 50, ±0.15 %; ±0.15 % at ±25 mV, 1 V to 5 V, ±1 V, ±2, 5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±20 mV, ±0.23% at ±25 mV • Voltage, relative to input range, (+/-) 0.15 %; ±0.15 % at ±20 mV, ±0.0 mA, ±0	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range	
conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 500 Ohms (3-conductor measurement), 0 to 500 Ohms) e Resistance thermometer, relative to input range, (+/-) 0.15 %; ±0.15 % at 0 to 480 ohms (4-conductor measurement), 0 to 500 Ohms (3-conductor measu	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31
Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, 0 in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 500 Ohms (4-conductor measurement), 0 to 500 Ohms (4-conductor measurement), 0 to 500 Ohms (4-conductor measurement), 0 to 500 Ohms (3-conductor measurement), 0 <b< td=""><td>Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-)</td><td>0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV</td></b<>	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV
in range of 60000 (bm); ±0.4% af 0 to 300 Ohm (3-conductor measurement), 0 to 5000 Ohm; (1-CType E (±1.7 K), TC Type B (±1.1 K), TC Type E (±3.2 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type L (±4.2 K), TC Type I (±4.4 K)Basic error limit (operational limit at 25 °C)• Voltage, relative to input range, (+/-)0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV• Current, relative to input range, (+/-)0.15 %; ±0.15% at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA• Resistance, relative to input range, (+/-)0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 5500 ohms (4-conductor measurement), 0 to 500 ohms (3-conductor measurement), 0 to 500 ohms (4-conductor measurement), 0 to 500 ohms (3-conductor measurement), 0 to 500 ohms (4-conductor measurement), 0 to 500 ohms	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-
measurement, in range of 6000 Ohm); • Resistance thermometer, relative to input range, (+/-) 0.4 % • Thermocouple, relative to input range, (+/-) TC Type B (±1.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type N (±4.4 K) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; ±0.15% at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; ±0.15% at 0 to 80 mN; 4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 300 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600
• Resistance thermometer, relative to input range, (+/-) 0.4 % • Thermocouple, relative to input range, (+/-) TC Type B (±11.5 K), TC Type I (±3.2 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type L (±3.2 K), TC Type I (±4.3 K), TC Type K (±6.2 K), TC Type I (±2.4 K) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) 0.15 %; ±0.15% at ±250 mV, ±0.00 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; at 0 to 500 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms) • Resistance thermometer, relative to input range, (+/-) 0.3 % • Tc Type B (±7.6 K), TC Type B (±4.8 K) TC Type S (±5.4 K), TC Type T (±1.1 K), TC Type E (±1.3 K), TC Type I (±2.3 K), TC Type I (±1.2 K), TC Type I (±2.3 K), TC Type I (±1.2 K), TC Type I (±2.3 K), TC Type I (±2.4 K) Interrupts/diagnostics/status information Yes; Par	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 10 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 600
• Thermocouple, relative to input range, (+/-) TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; ±0.15% at ±250 mV, ±0.23% at ±25 mV 0.15 %; ±0 15% at ±0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; ±0.15% at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.15 %; ±0.15% at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms) • Resistance thermometer, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) Ves; Parameterizable Interru	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 10 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor
(±1.7 k), TC Type E (±3.2 k), TC Type J (±4.3 k), TC Type K (±6.2 k), TC Type U (±2.8 k), TC Type L (±4.2 k), TC Type K (±6.2 k), TC Type U (±2.8 k), TC Type L (±4.2 k), TC Type N (±4.4 k) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±10, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; ±0.15 % at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms) • Resistance thermometer, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) Ves; Parameterizable Diagnostic alarm <td> Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Resistance, relative to input range, (+/-) </td> <td>0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm);</td>	 Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Resistance, relative to input range, (+/-) 	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm);
Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; ±0.15% at ±0 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms) • Resistance thermometer, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) TC Type B (±7.6 K), TC Type R (±4.8 K) TC Type S (±5.4 K), TC Type U (±1.1 K), TC Type I (±1.1 K), TC Type I (±2.3 K), TC Type K (±3.4 K), TC Type U (±1.7 K), TC Type I (±2.3 K), TC Type I (±2.6 K) Interrupts/diagnostics/status information Yes; Parameterizable Alarms • Diagnostic alarm Yes; Parameterizable • Limit value alarm Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 %
 Voltage, relative to input range, (+/-) Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Resistance, relative to input range, (+/-) Resistance, relative to input range, (+/-) Resistance thermometer, relative to input range, (+/-) Resistance thermometer, relative to input range, (+/-) Resistance thermometer, relative to input range, (+/-) Thermocouple, relative to input range, (+/-)	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-)	 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor meas
±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV • Current, relative to input range, (+/-) 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA • Resistance, relative to input range, (+/-) 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 5000 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement, in range of 6000 ohms) • Resistance thermometer, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) 0.3 % Interrupts/diagnostics/status information Ves; Parameterizable Diagnostic alarm Yes; Parameterizable • Limit value alarm Yes; Parameterizable	 Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Resistance, relative to input range, (+/-) Resistance thermometer, relative to input range, (+/-) Thermocouple, relative to input range, (+/-) 	 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor meas
• Current, relative to input range, (+/-)0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA• Resistance, relative to input range, (+/-)0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA• Resistance, relative to input range, (+/-)0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 600 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 5000 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 5000 ohms	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K)
 Resistance, relative to input range, (+/-) 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms) Resistance thermometer, relative to input range, (+/-) Thermocouple, relative to input range, (+/-) To Type B (±7.6 K), TC Type R (±4.8 K) TC Type S (±5.4 K), TC Type T (±1.1 K), TC Type L (±2.3 K), TC Type N (±2.6 K) Interrupts/diagnostics/status information Diagnostics function Yes; Parameterizable Alarms Diagnostic alarm Limit value alarm Yes; Parameterizable Yes; Parameterizable 	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C)	 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V;
(4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (4-conductor measurement, in range of 6000 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 600 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 600 ohms); ±0.3 % • Resistance thermometer, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) TC Type B (±7.6 K), TC Type R (±4.8 K) TC Type S (±5.4 K), TC Type T (±1.1 K), TC Type E (±1.8 K), TC Type J (±2.3 K), TC Type K (±3.4 K), TC Type U (±1.7 K), TC Type L (±2.3 K), TC Type K (±3.4 K), TC Type U (±1.7 K), TC Type L (±2.3 K), TC Type N (±2.6 K) Interrupts/diagnostics/status information Yes; Parameterizable Alarms Yes; Parameterizable • Diagnostic alarm Yes; Parameterizable • Limit value alarm Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV
300 ohms (3-conductor measurement), 0 to 600 ohms (3-conductor measurement, in range of 6000 ohms) • Resistance thermometer, relative to input range, (+/-) 0.3 % • Thermocouple, relative to input range, (+/-) TC Type B (±7.6 K), TC Type R (±4.8 K) TC Type S (±5.4 K), TC Type T (±1.1 K), TC Type E (±1.8 K), TC Type J (±2.3 K), TC Type K (±3.4 K), TC Type U (±1.7 K), TC Type L (±2.3 K), TC Type N (±2.6 K) Interrupts/diagnostics/status information Yes; Parameterizable Alarms Yes; Parameterizable • Diagnostic alarm Yes; Parameterizable • Limit value alarm Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA
measurement), 0 to 5000 ohms (3-conductor measurement, in range of 6000 ohms)• Resistance thermometer, relative to input range, (+/-)0.3 %• Thermocouple, relative to input range, (+/-)TC Type B (±7.6 K), TC Type R (±4.8 K) TC Type S (±5.4 K), TC Type T (±1.1 K), TC Type E (±1.8 K), TC Type J (±2.3 K), TC Type K (±3.4 K), TC Type U (±1.7 K), TC Type L (±2.3 K), TC Type N (±2.6 K)Interrupts/diagnostics/status informationDiagnostics functionYes; ParameterizableAlarmsYes; Parameterizable• Diagnostic alarm • Limit value alarmYes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; ±0.15% at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to
 Resistance thermometer, relative to input range, (+/-) Thermocouple, relative to input range, (+/-) TC Type B (±7.6 K), TC Type R (±4.8 K) TC Type S (±5.4 K), TC Type T (±1.1 K), TC Type E (±1.8 K), TC Type J (±2.3 K), TC Type K (±3.4 K), TC Type U (±1.7 K), TC Type L (±2.3 K), TC Type N (±2.6 K) Interrupts/diagnostics/status information Diagnostics function Yes; Parameterizable Alarms Diagnostic alarm Limit value alarm Yes; Parameterizable Yes; Parameterizable 	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; ±0.15% at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 0 to 5000 ohms); ±0.3 % at 0 to
Thermocouple, relative to input range, (+/-) TC Type B (±7.6 K), TC Type R (±4.8 K) TC Type S (±5.4 K), TC Type T (±1.1 K), TC Type E (±1.8 K), TC Type J (±2.3 K), TC Type K (±3.4 K), TC Type U (±1.7 K), TC Type L (±2.3 K), TC Type N (±2.6 K) Interrupts/diagnostics/status information Diagnostics function Yes; Parameterizable Diagnostic alarm Yes; Parameterizable Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 5000 ohms (4-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor 5000 ohms (3-conductor measurement), 0 to 6000 ohms (3-conductor 5000 ohms (3-conductor measur
K), TC Type E (±1.8 K), TC Type J (±2.3 K), TC Type K (±3.4 K), TC Type U (±1.7 K), TC Type L (±2.3 K), TC Type N (±2.6 K) Interrupts/diagnostics/status information Diagnostics function Yes; Parameterizable Alarms • Diagnostic alarm Yes; Parameterizable • Limit value alarm Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 500 Ohms (3-conductor measurement), 0 to 500 Ohms (3-conductor measurement), 0 to 600 Ohms) (3-conductor measurement), 0 to 5000 Ohms (3-conductor measurement), 0 to 600 Ohms) (3-conductor measurement), 0 to 5000 Ohms (3-conductor measurement), 0 to 600 Ohms)
interrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm • Limit value alarm Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; ±0.15 % at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 600 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 600 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohm
Diagnostics function Yes; Parameterizable Alarms • Diagnostic alarm Yes; Parameterizable • Limit value alarm Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 0 to 600 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 1 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 0 to 600 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conduc
Alarms Yes; Parameterizable • Limit value alarm Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 300 ohms (4-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor mea
• Diagnostic alarm Yes; Parameterizable • Limit value alarm Yes; Parameterizable	 Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Resistance, relative to input range, (+/-) Resistance thermometer, relative to input range, (+/-) Thermocouple, relative to input range, (+/-) Voltage, relative to input range, (+/-) Current, relative to input range, (+/-) Current, relative to input range, (+/-) Resistance, relative to input range, (+/-) Resistance thermometer, relative to input range, (+/-) 	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement, in range of 6000 Ohm); ±0.4% at 0 to 300 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 6000 ohms); ±0.3 % at 0 to 300 ohms (3-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to
Limit value alarm Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Current limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-)	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 t
	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Noltage, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Interrupts/diagnostics/status information Diagnostics function	0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4- conductor measurement), 0 to 300 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement, in range of 6000 Ohm); 0.4 % TC Type B (±11.5 K), TC Type R (±7.3 K), TC Type S (±8.3 K), TC Type T (±1.7 K), TC Type E (±3.2 K), TC Type J (±4.3 K), TC Type K (±6.2 K), TC Type U (±2.8 K), TC Type L (±4.2 K), TC Type N (±4.4 K) 0.15 %; ±0.15% at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 V to 5 V, ±10 V; ±0.17% at ±80 mV; ±0.19% at ±50 mV; ±0.23% at ±25 mV 0.15 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.15 %; ±0.15 % at 0 to 48 ohms (4-conductor measurement), 0 to 150 ohms (4-conductor measurement), 0 to 300 ohms (4-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 to 5000 ohms (4-conductor measurement), 0 to 600 ohms (3-conductor measurement), 0 to 5000 ohms (3-conductor measurement), 0 t
Hardware interrupt Yes; Parameterizable	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input ran	 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 500 Ohms (3-conductor measurement), 0 to 5000 Ohms
	Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Current, relative to input range, (+/-) • Current, relative to input range, (+/-) • Resistance thermometer, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Thermocouple, relative to input range, (+/-) • Diagnostics function Alarms • Diagnostic alarm	 0.3 %; ±0.3 % at ±250 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, 1 to 5 V, ±10 V; ±0.31 % at ±80 mV; ±0.32 % at ±50 mV; ±0.35 % at ±25 mV 0.3 %; at 0 to 20 mA, ±5 mA, ±10 mA, ±20 mA, 4 to 20 mA 0.3 %; ±0.3% at 0 to 48 Ohm (4-conductor measurement), 0 to 150 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 5000 Ohm (4-conductor measurement), 0 to 600 Ohm (4-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 600 Ohm (3-conductor measurement), 0 to 5000 Ohm (3-conductor measurement), 0 to 500 Ohms (3-conductor measurement), 0 to 5000 Ohms

Diagnoses	
Diagnostic information readable	Yes
Diagnostics indication LED	
 internal fault INTF (red) 	Yes
 external fault EXTF (red) 	Yes
Potential separation	
Potential separation analog inputs	
 Potential separation analog inputs 	Yes; internal/external
between the channels	No
 between the channels and backplane bus 	Yes
 Between the channels and load voltage L+ 	Yes
Isolation	
Isolation tested with	2 120 V DC between bus and L+/M; 2 120 V DC between bus and analog section; 500 V DC between bus and local ground; 500 V DC between analog section and L+/M; 2 120 V DC between analog section and local ground; 2 120 V DC between L+/M and local ground
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	500 g

last modified:

3/2/2021 🖸