

PROGRAMMABLE TEMPERATURE TRANSMITTERS - SERIES 441

Input

Resistance Thermometer (RTD)

TYPE	MEASUREMENT RANGE	MINIMUM RANGE
PT100 (Ω 0.003 85° C) ⁽¹⁾	-200 to 850° C (-328 to 1562° F)	10° C (18° F)
PT500	-200 to 250° C (-328 to 482° F)	10° C (18° F)
PT1000	-200 to 250° C (-328 to 482° F)	10° C (18° F)
NI100 (Ω 0.006 18° C) ⁽¹⁾	-60 to 180° C (-76 to 356° F)	10° C (18° F)
NI500	-60 to 150° C (-76 to 302° F)	10° C (18° F)
NI1000	-60 to 150° C (-76 to 302° F)	10° C (18° F)
Connection Type	2, 3 or 4 wire connection cable resistance compensation possible in the 2 wire system (0 to 20) Ω	
Sensor Cable Resistance	maximum 11 Ω per cable	
Sensor Current	50.6 mA	

Resistance (Ω)

TYPE	MEASUREMENT RANGE	MINIMUM RANGE
Resistance	10 to 400 Ω 10 to 2000 Ω	10 Ω 100 Ω

Thermocouple (TC)

TYPE	MEASUREMENT RANGE	MINIMUM RANGE
B	0 to 1820° C (32 to 3308° F)	500° C (900° F)
C	0 to 2320° C (32 to 4208° F)	500° C (900° F)
D ⁽³⁾	0 to 2495° C (32 to 4523° F)	500° C (900° F)
E	-200 to 915° C (-328 to 1679° F)	50° C (90° F)
J	-200 to 1200° C (-328 to 2192° F)	50° C (90° F)
K	-200 to 1372° C (-328 to 2501° F)	50° C (90° F)
L ⁽²⁾	-200 to 900° C (-328 to 1652° F)	50° C (90° F)
N	-270 to 1300° C (-454 to 2372° F)	50° C (90° F)
R	0 to 1768° C (32 to 3214° F)	500° C (900° F)
S	0 to 1768° C (32 to 3214° F)	500° C (900° F)
T	-200 to 400° C (-328 to 752° F)	50° C (90° F)
U ⁽²⁾	-200 to 600° C (-328 to 1112° F)	50° C (90° F)
MoRe5-MoRe4 ⁽¹⁾	0 to 2000° C (32 to 3632° F)	500° C (900° F)

Voltage (mV)

TYPE	MEASUREMENT RANGE	MINIMUM RANGE
Millivolt (mV)	-10 to 100 mV	5 mV

(1) no reference

(2) according to DIN 43710

(3) according to ASTM E988