





E-direct Temperature Selection Guide

Description	easytemp™ TSM 470 G	easytemp™ TSM 470 F	easytemp™ TSM 470 P
			
	Compact Thermometer	Compact Thermometer	Compact Thermometer
Application	General purpose	Food industry	Pharmaceutical industry
Measuring range	-60 to +320 °F	-60 to +320 °F	-60 to +320 °F
Output signal	Analog, 4 - 20 mA, 20 to 4 mA	Analog, 4 - 20 mA, 20 to 4 mA	Analog, 4 - 20 mA, 20 to 4 mA
Power supply	10 - 35V DC, polarity protected	10 - 35V DC, polarity protected	10 - 35V DC, polarity protected
Minimum immersion	1½"	¾"	¾"
Process connection	½" NPT	1", 1½", 2" Tri-Clamp®	½" and ¾" Tri-Clamp®
Sensor diameter	¼" sheath	¼", ⅜" reduced to ⅜" (Ra ≤ 32 µin)	⅝/32" (Electropolished Ra ≤ 20 µin)
Insertion length	3¼" - 8¼"	2" - 6"	¾" - 2¾"

Description	iTEMP® TMT 127	iTEMP® TMT 128	iTEMP® TMT 187	iTEMP® TMT 188
				
	Rail Mounted Transmitter (RTD)	Rail Mounted Transmitter (TC)	Head Transmitter (RTD)	Head Transmitter (TC)
No. of input channels	1	1	-	-
RTD input	Pt 100	-	Pt 100	-
Thermocouple input	-	J, K, N, R,S,T	-	J,K,N,R,S,T
Accuracy (Pt 100, -50 to +200°C)	≤ 0.2 K	-	≤ 0.2 K	-
Power supply	12 to 35 V	12 to 35 V	8 to 35 V	8 to 35 V
Output	4 - 20 mA	4 - 20 mA	4 - 20 mA	4 - 20 mA
Operation	Fixed range	Fixed range	Fixed range	Fixed range
Galvanic isolation	✓	✓	✓	✓
Failure mode (high/low)	(high) $21.5 \leq I \leq 23$ (low) $I \leq 3.6$	(high) $21.5 \leq I \leq 23$ (low) $I \leq 3.6$	(high) $21.5 \leq I \leq 23$ (low) $I \leq 3.6$	(high) $21.5 \leq I \leq 23$ (low) $I \leq 3.6$
Ambient temperature (condensation allowed)	-40 to +185 °F -40 to +85 °C	-40 to +185 °F -40 to +85 °C	-40 to +185 °F -40 to +85 °C	-40 to +185 °F -40 to +85 °C
Certificates	FM, CSA, IS, UL 3111-1	FM, CSA, IS, UL 3111-1	FM, CSA, IS, UL 3111-1	FM, CSA, IS, UL 3111-1
Special features	Keyed wiring terminals	Keyed wiring terminals	Captive screws, gold plated contacts	Captive screws, gold plated contacts

Description	Thermophant TTR 31
	Temperature Switch
Measuring range	-58 to +300 °F
Output signal	1 PNP, 2 PNP, or 1 PNP with 4 to 20 mA analog
Operation	3-button setup, or ReadWin 2000 PC programming
Power supply	12 to 30 V DC
Sensor length	2", 4" or 8"
Process connection	½" or ¼" NPT
Certificates/Approvals	SIL 2