



DIAL Thermometers

SERIES	BT	BTLRN	BTL	CBT	BTP	BTM3	STC	ST	ITA	DBT	RRT3	BTO
Range	0 to 1000°F	0 to 200°F	-40 to 500°F	-40 to 500°F	-50 to 500°F	-40 to 750°F	-50 to 500°F	-50 to 500°F	-40 to 550°F	-58 to 302°F	-40 to 300°F	0 to 550°F
Dial Size	2", 3" or 5"	3"	3"	1-3/4", 2" or 3"	2"	3" with min/max follower pointer	2"	2"	9" liquid filled linear scale	3" solar powered digital readout	3-1/2" with set-point and SPDT output	3" or 5" with 4 to 20 mA temperature output
Stem Length	2.5", 4" or 6"	12" to 72"	2.5", 4" or 6"	5" or 8"	Pipe surface mount	2-1/2", 4", 6", 9", or 12"	Pipe surface mount	Surface mount	2-1/2" or 5" thermowell	2-1/2", 4", 6", 9", 12", 15", 18", or 24"	3-1/8" remote stem with 10.5' capillary	2-1/2", 4", 6", 9", or 12"
Process Connection	1/2" NPT; Back, Lower, or Adjustable mount	1/2" NPT; Back mount	1/2" NPT; Right side or left side mount	Vessel clip	Spring clamp for pipes from 3/4" to 6" diameter	1/2" NPT; Back mount	Clip for pipes from 3/4" to 2-3/8" diameter	Magnetic backing for surface mount	3/4" NPT; Adjustable lower mount	1/2" NPT; Adjustable mount	1/2" NPT; Remote mount	1/2" NPT; Adjustable mount

PID LOOP CONTROLLERS Temperature and Process Controllers

SERIES	16C, 8C, 4C	32B, 16B, 8B, 4B	16G, 8G, 4G	SCD
Number of Temperature Inputs	1	1	1	1 to 8
Temperature Input Type	Thermocouple or RTD	Thermocouple, RTD, current, or voltage	Thermocouple, RTD, current, or voltage	Thermocouple, RTD, current, or voltage
DIN Sizes	1/16, 1/8, 1/4	1/32, 1/16, 1/8, 1/4	1/16, 1/8, 1/4	DIN rail mount
Number of Outputs	1	2	2	2 to 16
Output Type	SPDT mechanical relay 14 VDC pulse voltage 4 to 20 mA current	SPDT mechanical relay 14 VDC pulse voltage 4 to 20 mA current 0 to 10 VDC voltage	SPDT mechanical relay 14 VDC pulse voltage 4 to 20 mA current 0 to 10 VDC voltage	SPDT mechanical relay 14 VDC pulse voltage 4 to 20 mA current 0 to 10 VDC voltage
Approvals	CE, UL	CE, UL	CE, UL	CE, UL

These Selection Guides are for quick comparison of similar products. Please refer to the website for complete product information and specifications.



LIMIT CONTROL Digital Temperature Switches



SERIES	16L	TSF-DF	TSF
Number of Temperature Units	1	1	1
Temperature Input Type	Thermocouple, RTD, voltage, or current	Type J, K, or S thermocouple	Type J, K, or S thermocouple
Digital Input	No	Yes	Yes
Number of Relay Outputs	1 or 2	1	1
Relay Type	2 SPST, 1 SPDT	SPST	SPDT
Approvals	FM, UL	CE, UL	CE, FM, UL

HEATING & COOLING CONTROL Digital Temperature Switches



SERIES	40T	40M	TCS
Number of Temperature Units	1	1	1
Temperature Input Type	Type J or K thermocouple, 2 or 3 wire PT 100 RTD	Thermocouple, RTD, thermistor, current, or voltage	Type J, K, or S thermocouple
Digital Input	No	No	No
Number of Relay Outputs	1	1	1
Relay Type	SPDT	SPDT	SPDT
Approvals	CE, UL	CE, UL	CE, UL



REFRIGERATION OR LOW TEMPERATURE HEATING

Digital Temperature Switches



SERIES	TST	TSXT	TS3	TSX3	TS2	TSS2	TSW	TSWB
Number of Temperature Inputs	1	3	1	2	1	2	1 or 2	1
Temperature Input Type	PTC or NTC thermistor	PTC or NTC thermistor	PTC or NTC thermistor	PTC or NTC thermistor	PTC	PTC or NTC thermistor	PTC or NTC thermistor	PTC or NTC thermistor
Digital Input	No	Yes	Yes	Yes	No	No	No	Yes
Number of Relay Outputs	1	1, 2, or 3	1	2 or 3	1	2	1 or 2	3
Relay Type	SPDT	1 output models: SPDT 2 & 3 output models: SPST	SPDT	2 output models: SPDT 3 output models: SPST	SPDT	SPDT	SPDT	2 SPST, 1 SPDT