

2-Channel Temperature Indication plus Built-in Alarms, AC Line Filter and Buzzer





DESCRIPTION

The DTM series offers two completely independent channels for temperature monitoring. Totally front key programmable, these units can be programmed to display different type of thermocouples on each channel e.g. Channel

FEATURES

- Displays temperature from Thermistors, RTD's and a wide range of Thermocouples
- Programmable display units -- Centigrade or Fahrenheit
- Totally front key programmable including input type
- Programmable time base for rate
- Auto/manual scanning with HOLD feature
- Two relays and one audio/visual output per channel (optional)
- Output status indication on front panel
- Programmable Channel display time
- Keeps track of process run time
- Built-in buzzer (with alarm option)
- Captures Min/Max readings
- Shows channel differentials (C1-C2, C2-C1)
- Security password for preventing unauthorized program changes

1 can be set to display type 'K' thermocouple, while Channel 2 could be displaying temperature from a type 'J' thermocouple. Also, each channel can be programmed to display in either degree's Centigrade or Fahrenheit.

If desired, the display can be held indefinitely on either channel or automatically scan between the readings on two Channels. Channel display time is programmable and can be set any where from 1 to 999 seconds.

Each Channel on DTM units constantly tracks high and low temperature readings. This feature is useful if the process is not being continuously watched, or must be left unattended e.g. overnight. Temperature extremes are automatically stored and may be displayed with the touch of a key. These stored peaks can be reset to current process temperature at any time, thus allowing retracking of process from a new point.

Four temperature alarms, two for each Channel, are also featured by this series. Additionally, each Channel has one audio/Visual alarm. This alarm turns on an LED on the front panel as well as activates the





For further information, contact: Tel. No: (480) 607-3100 (Ext. 201) Fax No: (480) 607-3101 www.kaifdigital.com Buzzer. The buzzer also comes on whenever relay/solidstate outputs are activated. The outputs can be programmed as normally open/noramally closed and latching/non-latching.

Another useful function on these units is the display of Channel differentials. This can be displayed as C1-C2 or C2-C1. Also calculated by the unit is rate of temperature change on each Channel. Time base for this rate is programmable and can be set in seconds.

Process run time is monitored and can be displayed by pushing the TIME key. Display format is HH.MM.SS. This elapsed time can be reset for retracking of time from a new point.

SPECIFICATIONS	TYPE		
	TIFL	RANGE	ACCURACY
ANALOG INPUTS:	J	-200 to 1190C	+-1C+-1cnt
i) J,K,T,E,R,S,B Thermocouples, Thermistor, RTD		-328 to 2174F	+-2F+-1cnt
Cold junction error: +/- 1 C (10C to 45c)	к	-170 to 1370C	+-1C+-1cnt
Open Sensor condition displayed		-274 to 2500F	+-2F+-1cnt
RESOLUTIOIN:	т	-160 to 400C	+-1C+-1cnt
Temperature resolution: 1C/1F(Thermocouples) Temperature resolution: 1C/1F(RTDs)		-256 to 752F	+-2F+-1cnt
Temperature resolution: 0.1C/0.2F(Thermistors)	E	-185 to 915C	+-1C+-1cnt
ANALOG TO DIGITAL CONVERSION		-300 to 1675F	+-2F+-1cnt
Dual Slope, integrating, 20,000 count A/D converter	R	0C to 1600C	+-3C+-1cnt
Conversion rate: 7 conversions/sec (typical)		32F to 2900F	+_6F+-1cnt
DISPLAY: Seven red 7-segment LED displays, 0.39 inch height.Negative polarity and Over-range indication.	S	0 to 1600C	+-3C+-1cnt
DISPLAY TEST: 8.8.8.8.8.8. on power up		32 to 2900F	+-6F+-1cnt
POWER OPTION	В	470 to 1800C	+-3C+-1cnt
120VAC (60 Hz) (Standard) 220VAC (50 Hz) (Optional)		900 to 3300F	+-6F+-1cnt
8VDC 15VDC @ 900ma (optional) OUTPUT (optional)	RTD-385	-200 to 800C	+-1C+-1cnt
1.Open collector - 4 open collector outputs, maximum		-328 to 1472F	+-2F+-1cnt
sink capability of 50ma per output	RTD-392	-100 to 450C	+-1C+-1cnt
2.Relays: Single pole single throw, 1 Amp @ 28Vdc or		-148F to 842F	+-2F+-1cnt
0.5 Amp @ 120Vac resistive	Thermistor	-8.0 to 100.0C	+-0.5C+-1ct
Output termination: Euro-style plugable connector		17.2 to 212.0F	+-1.0F+-1ct



To find a model number, fill in blanks 1, 2, and 3 with appropriate selection. Refer to ordering example below:

