

**DTM  
DIGITAL TEMPERATURE GAUGE**



Flow  
Pressure  
Level  
Temperature  
measurement  
monitoring  
control



- Remote and Fixed Probe Versions
- Highly Visible Green LED Readout
- Standard & Custom Ranges Available
- Analog Output Standard
- Peak Hold/RS232 Options
- Up to four SPDT Switches
- 316 SS Construction

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**USA**

KOBOLD Instruments Inc.  
1801 Parkway View Drive  
USA-Pittsburgh, PA 15205  
☎ +1 412-788-2830  
Fax +1 412-788-4890  
E-mail: info@koboldusa.com



**CANADA**

KOBOLD Instruments Canada Inc.  
9A Aviation  
Pointe-Claire, QC H9R 4Z2  
☎ +1 514-428-8090  
Fax +1 514-428-8899  
E-mail: kobold@kobold.ca

Visit KOBOLD Online at  
[www.kobold.com](http://www.kobold.com)

Model:  
DTM



**Features**

- Highly Visible Green LED Readout
- Standard & Custom Ranges Available
- Analog Output Standard
- Up to Four SPDT Switches
- 316 SS Construction

With the DTM, KOBOLD addresses all the fundamental issues of industrial temperature sensing. A digital display, built-in transmission capability, and optional set-point switches, cover all aspects of indication and control. The DTM is designed as a direct replacement for gas or liquid bulb thermometers.

Constructed for industrial use, these meters feature 316-Ti SS wetted parts and 304 stainless steel enclosures. We offer a number of standardized temperature sensing ranges in units of Fahrenheit or Celsius. However, because of its electronic nature, any desired units or temperature ranges are possible (within the device's operating limits). If you don't see what you want, give us a call, and we'll customize the range for you.

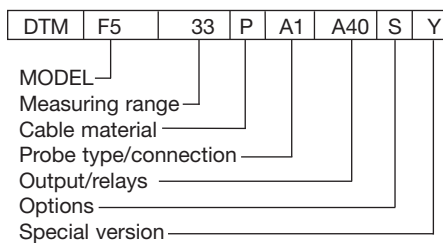
The KOBOLD DTM comes standard with a local digital display and analog output . . . ideal for remote monitoring. Setpoint relays are available as options. These SPDT relays come in pairs of either two or four switches. Setpoints and hysteresis are fully adjustable via the front keypad making the DTM ideal for thermostatic temperature control of multiple processes.

If your application requires the installation of a thermowell see the TSH series thermowells.



**KOBOLD DTM Digital Temperature Gauge**

**DTM Order Key**



Use Table 1 through 6 on the following pages to completely specify your model.

**Specifications**

- Ranges:** -30°F to 750°F (see table)
- Sensor Type:** Pt-100 RTD
- Accuracy:** ±0.5% FS ±1 digit
- Linearity:** ±0.2% FS
- Repeatability:** ±0.1% FS ±1 digit
- Response Time**
- Display:** <100ms
- Relays:** <30ms
- Operating Temperature**
- Medium:** Per Range Code
- Ambient:** -5°F to 140°F
- Storage:** -40° to 160°F
- Displays**
- Temperature:** 4 digit, 1/2" green LED
- Switches:** 4 digit backlit LCD
- Materials of Construction**
- Wetted Parts:** 316-Ti SS
- Housing:** 304 SS, Nylon®

**Electrical Information**

- Supply:** 15-30 VDC @ 200 mA
- Analog Output**
- Current:** 0-20 mA, 4-20 mA, 3-wire into 500 Ω max.
- Voltage:** 0-10 VDC, 3-wire into 500 Ω min.
- Zero Adjust:** ±25% of full scale
- Relays**
- Type:** SPDT, Qty. 0, 2 or 4
- Setpoints:** fully adjustable
- Hysteresis:** fully adjustable
- Max. Voltage:** 250 VAC, 220 VDC
- Max. Current:** 3 A
- Max. Power:** 50 VA, 60 W
- Connections:** via terminal strip
- Protection:** NEMA 4/IP65

**Table 1: Base Model**

<p>Straight probe DTM-S0...</p>	<p>Remote probe wall mount DTM-F0...</p>
<p>Bent probe DTM-SA... DTM-SB... DTM-SC... DYM-SD...</p>	<p>Remote probe panel mount DTM-F5...</p>

**Table 2: Measuring Range**

...34.. = -30 to +40°F	...31.. = -30 to +100°F	...32.. = -30 to +120°F	...36.. = -30 to +160°F
...37.. = 0 to 100°F	...14.. = 0 to 140°F	...22.. = 0 to 220°F	...33.. = 32 to 300°F
...39.. = 32 to 390°F	...57.. = 32 to 570°F	...75.. = 32 to 750°F	...24.. = -20 to +40°C
...26.. = -20 to +60°C	...44.. = -30 to +40°C	...35.. = -30 to +50°C	...46.. = -30 to +60°C
...60.. = 0 to 60°C	...80.. = 0 to 80°C	...10.. = 0 to 100°C	...12.. = 0 to 120°C
...16.. = 0 to 160°C	...20.. = 0 to 200°C	...30.. = 0 to 300°C	...40.. = 0 to 400°C
...YY.. = non standard range, specify desired scale and units when ordering			

**Table 3: Options**

...O.. =	no cable required
...P.. =	PVC cable, specify desired cable length when ordering
...S.. =	Silicone cable, specify desired cable length when ordering
*Note: Process temperature limits for cables with fitting style A0, PVC: 100°C(212°F), Silicone: 200°C(392°F)	

**Table 4: Probe Type/connection (probe diameter 8 mm/0.31")**

	Description	Fitting	Order Code
	Smooth Shank 8 mm Dia.	None	...A0..
	Union nut for insertion into TSH series Thermowells. Allows indicator to rotate	1/2" BSP	...B1..
	Union nut and shoulder nipple. Allows indicator to rotate when thermowell not used	1/2" NPT 3/4" NPT 1" NPT	...1A.. ...1B.. ...1C..

\*Note: Specify desired probe length when ordering.

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**Table 5: Output Type/Contacts**

Output Type	Relays		
	No relay	2 relays	4 relays
.4-20mA	..A40..	..A4G..	..A4M..
0-20 mA	..A00..	..A0G..	..A0M..
0-10 VDC	..AV0..	..AVG..	..AVM..

**Table 6: Options**

...S.. = Peak Hold
...R.. = RS232 Serial Interface
...K.. = Peak Hold & RS232

**Dimensions (mm)**

