Digital Temperature Switch

for Liquids



measuring

o

monitoring

analyzing

TDD



• Measuring Range: -58...250°F

• Max. Pressure: 1150 PSI

• Accuracy: ±1.0°F (for 14...185°F)

• Housing Material: Stainless Steel

• Connections:

½" NPT, ¾" NPT, G½, G¾, or M25 x 1.5



Order from: C A Briggs Company

622 Mary Street; Suite 101; Warminster, PA 18974 Phone: 267-673-8117 - Fax: 267-673-8118 Sales@cabriggs.com - www.cabriggs.com KOBOLD Instruments, Inc. 1801 Parkway View Drive Pittsburgh, PA 15205

Digital Temperature Switch for Liquids Model TDD



Description

The KOBOLD TDD temperature switches are used for economical measurement and monitoring of temperature. They are suited for applications where temperature must be monitored with a high degree of switching accuracy. A semiconductor, which outputs a digital signal to the evaluating electronics in 1.0 °F steps, serves as sensor element. The current measured value is displayed on a 3-digit LED display. Two switch points, on-/off-switching delay, and hysteresis are adjustable within the measuring range. Common applications include: compressors, mechanical and plant engineering, and pumps.



Technical Details

Housing Cover:303 Stainless SteelHousing:316L Stainless SteelSensor:316/316L Stainless Steel

Connection

Standard Version: 1/2" NPT or 3/4" NPT Male Thread

316L Stainless Steel Option: G½ or G¾

Remote Version

Sensor: 100 mm, 6 mm

Cable: 2.5 m PTFE with M12x1 Plug
Housing: M25x1.5 with Backing Nut

Principle of Meas.: Semiconductor

Display: 3-digit LED, Digit-height: 7 mm

Resolution: 1.0 °F up to 212 °F

Max. Media Temp.:

Standard Version: -4...250°F Remote Version: -58...250°F Ambient Temp. Range: -4...120°F Max. Pressure:1150 PSIPower Supply: $24 \text{ Vpc} \pm 20 \%$ Power Consumption:Approx. 50 mA

(without Switching Output)

Electrical Connection: M12x1 Plug **Type of Switch. Output:** Semiconductor;

PNP or NPN (Factory Set), Max. 300 mA, Short-circuit Proof

Contact Function: N/O / N/C, Window, Adjustable

Switch. Point Adj.: Adjustable via 2 Keys

Switching State Display: 1(2) LED

Hysteresis: Adjustable via 2 Keys

ON/OFF-Switch. Delay: 0.5...99.5 (Separately Adjustable)

Measuring Cycle: 0.5 s

t_{50/90}: approx. 13/30 s

Accuracy (Sensor): ±1.0°F (between 14...185°F)

±3.6°F (between 185...250°F and

-58...-14°F)

Protection: IP 65

Order Details (Example: TDD-153N4F210)

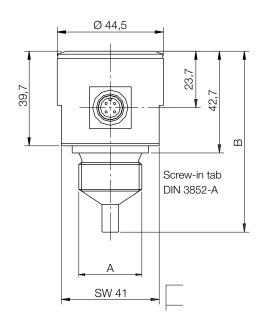
Model							
Output 1 x PNP	Output 1 x NPN	Output 2 x PNP	Output 2 x NPN	Connection	Measuring Range		Sensor Length
TDD-153	TDD-353	TDD-553	TDD-753	N4 = ½" NPT N5 = ¾" NPT R4 = G ½ R5 = G ¾ D6 = Remote Mount, No Fitting	F2 = 0250 °F H2 = -20120 °C F3 = -58250 °F H3 = -50125 °C		00 = 12 mm 10 = 100 mm 20 = 200 mm 10 = 100 mm
Accessories							
Micro-DC Plug, 4-pin with 6 ft Cable					807.037		
6mm Bore Through Compression Fitting for D6 Connection - 1/4" NPT						FTFHG1/4SS	
6mm Bore Through Compression Fitting for D6 Connection - 1/2" NPT						FTFHG1/2SS	

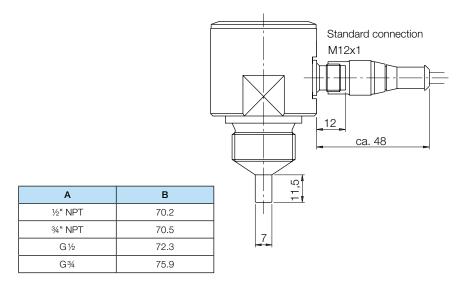
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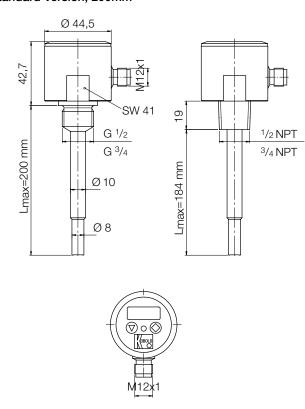
Dimensions (mm)

Standard Version, 12mm





Standard Version, 200mm



Remote Version

