



## TEMPERATURE PRODUCTS

# DT-8300EX Digital Thermometer

### Features

- Explosion Proof FM approval
- Works with thermocouple or RTD
- Battery powered or loop power version
- 4 digit LCD display in F or C Rugged NEMA 4X, IP68 enclosure
- 2 year battery life
- One unit can read all temperature ranges

### Description

The AMETEK DT-8300EX Digital Thermometer is a battery operated digital thermometer that accepts input from a standard Type J or K thermocouple or RTD, and provides local indication of temperature in degrees C or F. This unit has explosion proof FM approvals. A 4-2mA DC loop power version is available with the same features.

The unit is designed to replace analog bimetallic thermometers, reducing inventory costs because one unit can provide readings from -58°F to 1832°F (-50°C to 1000°C). No need to stock multiple ranges of bimetallic thermometers. Operating costs are also reduced because if there is a failure the lower cost temperature sensor (RTD or thermocouple) can be replaced without having to replace the entire unit like has to be done for a bimetallic thermometer. Also, a thermocouple or RTD is more reliable, accurate, and stable than a bimetallic thermometer.



The DT-8300EX is designed for use in process industries, where vibration, inclement weather, and corrosive atmospheres are present. The electronics are enclosed in copper-free, epoxy coated, aluminum housings. The housing is FM explosion proof certified and meets NEMA 4X and IP68 rating standards.

### Mounting

The DT-8300EX can be remotely mounted or mounted directly on the thermowell / nipple assembly. For mounting the unit on a wall or 2" pipe, we offer stainless steel mounting brackets.

### Specifications

<b>Thermocouple Type</b>	J / K or RTD Pt100
<b>Indication Accuracy</b>	±1°C / 1.8°F
<b>Display Height</b>	0.50 in (13 mm)
<b>Display Units</b>	°C or °F Switch Selectable
<b>Battery Life</b>	Approximately 24 Months (batteries not supplied)
<b>Calibration</b>	Single Point Calibration for Enhanced Accuracy
<b>Operating Temperature</b>	
RTD Pt100:	-4°F to 140°F (-20°C to 60°C)
Thermocouple Type J/K:	32°F to 140°F (0°C to 60°C)
<b>Weight</b>	2 lb (1 kg) for Aluminum Unit (not including sensor)
<b>Housing (NEMA 4X)</b>	Epoxy Coated Copper-Free Aluminum SST housing optional, please contact <a href="mailto:usg.sales@ametek.com">usg.sales@ametek.com</a>
<b>O Rings</b>	Buna N (Nitrile)
<b>Window</b>	Tempered Glass
<b>Screen Resolution</b>	4 Digits

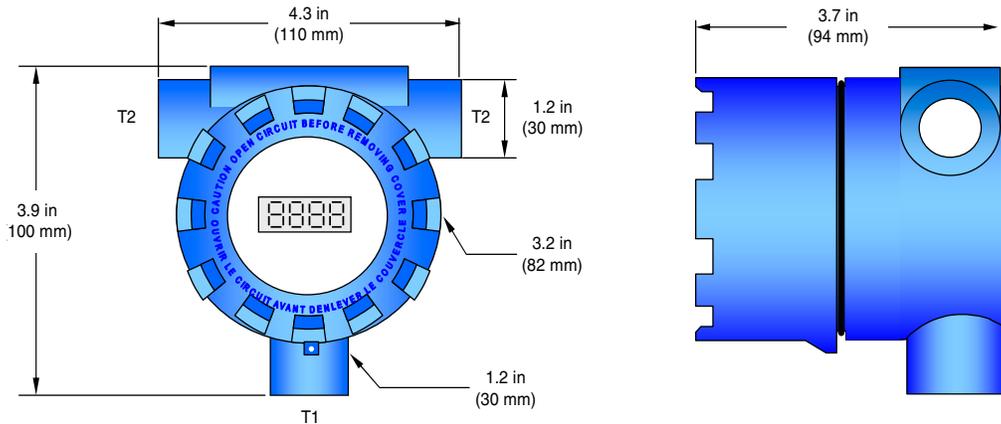
Spec. #	Model #	Description
173484	DT-8300EX-BT	Aluminum Housing / 0.50 in (13 mm) instrument X 0.50 in (13 mm) Conduit Connection / -58°F to 1832°F (-50°C to 1000°C) Battery Powered
173492	DT-8300EX	Aluminum Housing / 0.50 in (13 mm) instrument X 0.50 in (13 mm) Conduit Connection / -58°F to 1832°F (-50°C to 1000°C) Loop Powered
H620157	H-175NR	SST Wall / Pipe Mounting Bracket with U-clamp
H620158	H-175MM	SST Wall Mount Bracket



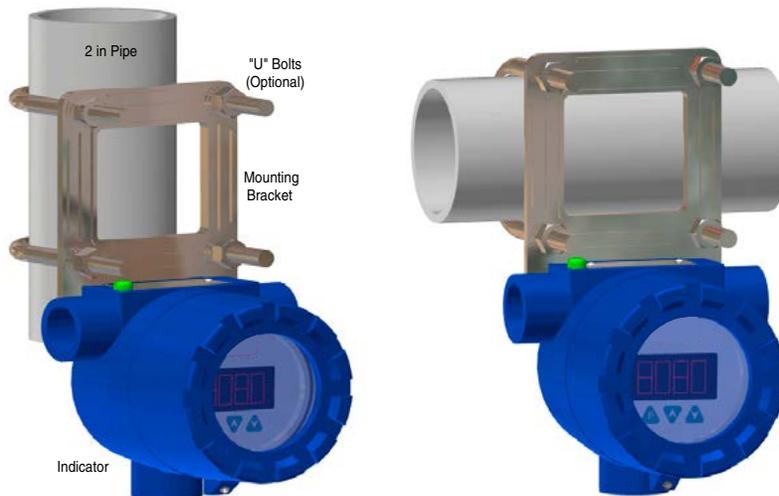
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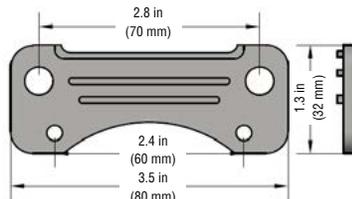
### Dimensions



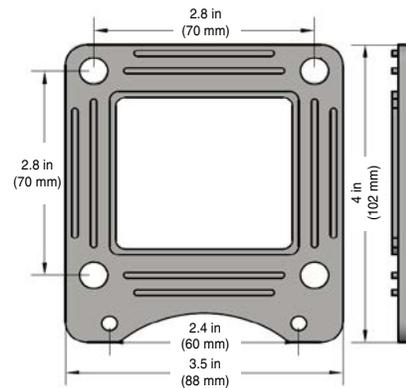
### Mounting Bracket H620157 on a Vertical or Horizontal Pipe



- The H620157 is a Stainless Steel Mounting Bracket with U-clamp is made for the Model DT-8300EX Instrument Enclosure to mount on a 2" Pipe.
- This Bracket is available for customers who require all 3 ports on the enclosure for other purposes.
- The H620157 is symmetrical, so it can be rotated 90° to suit the viewing position of the Indicator.
- The H620158 is a stainless steel wall mount bracket.



**H620158**



**H620157**