

**Temperature Products**

Digital Thermometers 3-1/2" - Types J & K Thermocouples

**MODEL DT-8300**



**USG Location: Largo, FL**

**Description:**

HOUSING: NEMA 4X design; 1/4 DIN; 302 Stainless Steel with one-piece Valox front bezel and Neoprene gasket; environmentally sealed with one-way valve for battery venting

DISPLAY: 3-1/2" LCD, update rate once per second; Display blanks out for low power condition and displays large, negative number when thermocouple or extension wires are open.

RANGE: Low - -50°F to 450°F (-50°C to 250°C); High - 400°F to 1500°F (200°C to 800°C)

INPUT: Type K thermocouple (not included), optional Type J inputs available.

OPERATING TEMPERATURE: -13°F to 160°F (-25°C to 72°C), depending on power supply

POWER OPTIONS: Self-Powered - 8 Size AA battery (not included), IS (Intrinsically Safe<sup>1</sup>) and FM approved, up to 1-1/2 years of continuous operation (typical<sup>2</sup>); Externally-Powered - 6 to 28 VDC voltage supplied (unregulated), 0 to 2.5 mA current supplied.

CONNECTION: 1-1/2" NPT Stainless Steel half couple seal welded to case

ACCURACY: ±1% of span, excluding T/C error (conforms to ANSI MC95-1)

<sup>1</sup> Class I, II, and III, Division 1, Groups A, B, C, D, E, and G hazardous locations using USG battery board P/N 156834.

<sup>2</sup> Ambient temperature above 100°F may shorten battery life.

Standard Model	List Price	List Price
Power Supply	Battery	External DC
3-1/2" Square, Field (wall, stem, or pipe) Mount	\$ 687.50	\$ 703.00
3-1/2" Square, Panel Mount	\$ 661.00	\$ 703.00

Subassemblies & Spare Parts	Description	Spec No.	List Price
Main Frame assemblies (Bezel, Display, Electronics)	Type K -50° - 450°F	149300	\$ 516.00
	Type K -50° - 250°C	149301	\$ 516.00
	Type K 400° - 1500°F	149302	\$ 516.00
	Type J -50° - 450°F	149304	\$ 516.00
Power Pack	External DC	149342	\$ 150.00
	Battery Board	156834	\$ 62.00
Case Assemblies	Field Mount for Battery	149387	\$ 86.30
	Field Mount for External DC	149383	\$ 123.10
	Panel Mount for Battery	149386	\$ 86.30
	Panel Mount for External DC	149381	\$ 123.10
Pipe Mounting Kit	Clamps and hardware	149460	\$ 21.60

**Notes:**



Figure 1: Model DT-8300 Digital Thermometer

**Master Gauge Co.**



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Digital Thermometers 3-1/2" - Types J & K Thermocouples

**MODEL DT-8300**

<b>Model:</b>		<i>DT-8310</i>		
<b>Thermocouple Type:</b>		K		
<b>Temperature Range (°F):</b>	<b>Figure No.</b>	<b>Power</b>	<b>Mount</b>	<b>Spec No.</b>
-50° to 450°	<i>DT-8311</i>	<i>Battery</i>	<i>Field</i>	<i>149011</i>
-50° to 450°	<i>DT-8312</i>	<i>Battery</i>	<i>Panel</i>	<i>149012</i>
-50° to 450°	<i>DT-8315</i>	<i>External DC</i>	<i>Field</i>	<i>149015</i>
-50° to 450°	<i>DT-8316</i>	<i>External DC</i>	<i>Panel</i>	<i>149016</i>

<b>Model:</b>		<i>DT-8320</i>		
<b>Thermocouple Type:</b>		K		
<b>Temperature Range (°C):</b>	<b>Figure No.</b>	<b>Power</b>	<b>Mount</b>	<b>Spec No.</b>
-50° to 250°	<i>DT-8321</i>	<i>Battery</i>	<i>Field</i>	<i>149021</i>
-50° to 250°	<i>DT-8322</i>	<i>Battery</i>	<i>Panel</i>	<i>149022</i>
-50° to 250°	<i>DT-8325</i>	<i>External DC</i>	<i>Field</i>	<i>149025</i>
-50° to 250°	<i>DT-8326</i>	<i>External DC</i>	<i>Panel</i>	<i>149026</i>

<b>Model:</b>		<i>DT-8330</i>		
<b>Thermocouple Type:</b>		K		
<b>Temperature Range (°F):</b>	<b>Figure No.</b>	<b>Power</b>	<b>Mount</b>	<b>Spec No.</b>
400° - 1500°	<i>DT-8331</i>	<i>Battery</i>	<i>Field</i>	<i>149031</i>
400° - 1500°	<i>DT-8332</i>	<i>Battery</i>	<i>Panel</i>	<i>149032</i>
400° - 1500°	<i>DT-8335</i>	<i>External DC</i>	<i>Field</i>	<i>149035</i>
400° - 1500°	<i>DT-8336</i>	<i>External DC</i>	<i>Panel</i>	<i>149036</i>

<b>Model:</b>		<i>DT-8350</i>		
<b>Thermocouple Type:</b>		J		
<b>Temperature Range (°F):</b>	<b>Figure No.</b>	<b>Power</b>	<b>Mount</b>	<b>Spec No.</b>
-50° to 450°	<i>DT-8351</i>	<i>Battery</i>	<i>Field</i>	<i>149051</i>
-50° to 450°	<i>DT-8352</i>	<i>Battery</i>	<i>Panel</i>	<i>149052</i>
-50° to 450°	<i>DT-8355</i>	<i>External DC</i>	<i>Field</i>	<i>149055</i>
-50° to 450°	<i>DT-8356</i>	<i>External DC</i>	<i>Panel</i>	<i>149056</i>

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