

TEL-TRU MANUFACTURING COMPANY

DIGI-TEL THERMOMETERS

Solar-powered digital thermometers

Battery-powered interchangeable display/probe assemblies

DIGI-TEL Thermometers combine the easy, quick visual reference feature of a local indicator and the precision readout of a digital thermometer with a unique interchangeable probe concept.



www.teltru.com

Since



Digi-Tel . . . The Industrial Thermometer of the Future

- ▶ Easily read display with either analog or digital indication
- ▶ Innovative sensor and microprocessor technology
- ▶ All stainless steel for heavy-duty industrial process applications
- ▶ Back, bottom, adjustable angle, or remote configurations
- Dust and moisture protection level is to IP 65 and EMI to EC standards
- Requiring very low power consumption, units are either battery powered (with a minimum 5-year life) or solar powered
- All DIGI-TEL models have a one-year warranty

The Probe Assembly—Sensor

- ▶ Pt 1000 thin film Platinum RTD, 2-wire type temperature sensor
- Maximum cable length recommended is 50 meters (163 feet) for remote models
- Probes fit standard bimetal thermowells

The Measuring Process

 A 3-second cycle for sensor readings provides real-time temperature indication, which is symbolized by a flashing sun on the display

Accuracy

- A microprocessor conditions the Pt 1000 signal with a resolution of 12 bits
- ▶ Meets accuracy requirements of EN 13190 class 1
- ► Factory certification of accuracy available

Sensor Monitoring and Service Considerations

- The microprocessor's integrated diagnostic routines continuously check the validity of the sensor output and the integrity of the sensor signal
- See www.teltru.com/digierror.aspx for error message details to confirm if:
 - > There is a short circuit of the sensor connection
 - > The measured value is out of range
 - > The probe is not connected to the module

Construction options

Interchangeable Display modules and probe assemblies

- Probe assembly and indicator display can be selected according to the application and easily connected on-site
- ▶ Standard watertight interchangeable connector assembly system
- Field changes and replacements are simple
- Maximum flexibility for use in industrial, test, and OEM applications
- ▶ SELECT, CONNECT, and INSTALL!

Integrated Display modules and probe assemblies with threaded connections are available for solar powered units.

Display readout options:

Analog/Digital display on 3" units

- ▶ The circular arrangement of LCD "graduations" gives the appearance of a traditional dial instrument allowing instant recognition of reading from a distance, while the exact temperature can be read from a 4-digit display
- ► Temperature ranges available are traditional bimetal thermometer equivalents

Digital only display on 5" and 4-1/2" units

With large high-resolution digits

Power options

Battery powered

- ▶ A lithium battery, with a minimum working life of five years
- Factory battery replacement available

Solar Powered

- The Solar powered DIGI-TEL has a solar cell integrated into the display module
- It can be used practically anywhere because the instrument functions reliably in artificial light at levels as low as 50 lux

BATTERY POWERED DIGI-TEL MODULAR THERMOMETERS

Select a Digital
Display Module

Select a Probe and/or Cable

Connect and Install

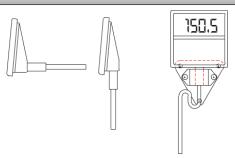








SOLAR POWERED DIGI-TEL INTEGRATED THERMOMETERS



ACCURACY CHART

	3" N	5", 4½" and 4" Models			
	Analog/Dig				
Display Type	Analog "grad to dial the	Digital Only Readout			
	<u>Digital</u> readout				
Size	.43" (1.06" (27mm)			
	Accuracy ≤1% FS		•		Accuracy ≤1% FS
Factory Calibrated Temperature Ranges	-80/120°F -40/160°F 0/250°F 0/400°F 25/125°F 50/550°F 150/750°F	-40/80°C 0/120°C 0/200°C 0/300°C	-75/750°F -60/400°C		



► SPECIFICATIONS:

Case Material: Stainless Steel case with chrome

plated bezel

Connection: None (compression fitting sold separately)

Probe: 6mm (.236") diameter 316SS

Power Supply: Solar cell, 50 Lux min. light density

Reading Cycle: 3 second intervals

D3 Display: Digital 4 digits with 7 segment display

1.06" (27mm) high

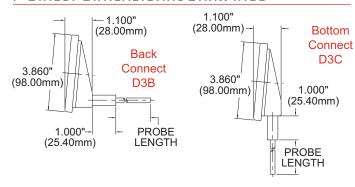
Protection Level: IP 65

Ambient Temp.: -4 to 140°F (-20 to 60°C)

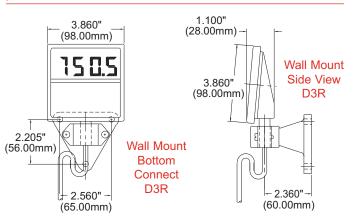
Accuracy: In accordance with DIN EN 13190 Class 1,

see Accuracy Chart, first page

DIRECT DIMENSIONAL DRAWINGS



► REMOTE DIMENSIONAL DRAWINGS



► HOW TO ORDER

DIRECT MOUNT							
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A	B C		- 1	כ	E	F	
		10	00				14

	Code	Des	cription					
A	Case 5 D3	Case Size/Display D3 4" Digital Display						
В	Mount B C R	C Direct Mounted, Bottom Connected						
C	Tempe	Temperature Range						
	Code		Temp. Range	Model				
	09 58		-75/750°F -60/400°C	D3 (digital)				
D	Probe 04 06 09 12	4" 6" 9" 12" 15"	th					
▼ Remote Models Only ▼								
E	Cable C1	Teflo	n Coated					
F	Cable I 005 010 015 020 030 040 050	5' 10' 15' 20' 30' 40' 50'	h					

Compression Fitting Order Separately

