# DM665TM PROBE MOUNTED TEMPERATURE DISPLAY

>	Pt100 OR THERMOCOUPLE INPUT
>	BATTERY POWERED
>	PUSH BUTTON CONFIGURATION
>	MAX MIN BUTTONS
>	ADJUSTABLE SAMPLE RATES

## 

The DM665TM accepts Pt100 or Thermocouple temperature sensors and displays the sensor temperature in °C or °F on a 6-digit LCD display.

It is an ideal alternative to bi-metal thermometers offering higher accuracy.

The device is easily programmable via a push button located inside the stainless-steel housing.



## **BATTERY POWERED**

The instrument is powered by two AA batteries. The product is supplied with 1.5 V AA alkaline batteries. This will give the DM650TM a minimum battery lifetime of over one year. Used with Lithium Energizer L91batteries (not supplied), the battery lifetime can be extended to over 5 years. Battery lifetime is dependent on the ambient operating temperature range and the sample rate selected.

### MAXIMUM and MINIMUM VALUE RECALL

The maximum and minimum temperature readings can be displayed by using the two front panel buttons.

### **USER OFFSET**

The user offset allows the temperature reading to be offset by +/- 10.0 temperature units. This allows compensation for any temperature probe error.

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INPUT RTD (3 Wire)		SPECIFICATIONS @20°C
Туре	Range	Accuracy/stability
Pt100 (IEC)	(-200 to 850) °C	±0.2°C ±0.05% of reading
		(plus, sensor error)
Thermal drift	0°C at 20°C	Typically, 0.01 Ω/°C
		Example Pt100 0.03°C

INPUT Thermocouple (T/C)		SPECIFICATIONS @20°C
Туре	Range	Accuracy/stability
К	(-150 to 1370) °C	±0.1% of full scale ±0.5°C
J	(-200 to 1200) °C	± CJ error
Ν	(-180 to 1300) °C	(plus, sensor error)
E	(-260 to 1000) °C	
Т	(-270 to 400) °C	±0.2% of full scale ±0.5°C
		± CJ error
		(plus, sensor error)
R	(0 to 1760)°C	±0.1% of full scale ±0.5°C
S	(0 to 1760)°C	± CJ error
		(plus, sensor error) over range (800
		to 1760)°C
Thermal drift	0°C at 20°C	Typically, ±5 uV/°C

COLD JUNCTION (T/C correction) SPECIFICATIONS		
Туре	Range	Accuracy/stability
Thermistor 10K Beta 3380	(-30 to 70) °C	±0.2°C
Thermal drift	0°C at 20°C	±0.05°C/°C

## DISPLAY

To a fact in a finance if any ation	Description .
Type/options/function	Description
Display height	15.8 mm non-backlit
Display units	°C or °F
Display resolution	0.0 or 0.00 (Note 0.00 resolution temperature units not displayed).
Sample rate	User-set 5, 10, 30, 60, seconds.
Offset	User-set ±10.0 temperature units
Display information options	6 digits, 14 segment input value plus sensor error, low battery
	Maximum, Minimum.

FRONT PANEL PUSH BUTTON USER INTERFACE	
Buttons	Description
Max and Min	Display Maximum and Minimum value and reset values

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CONFIGURATION PUSH BUTTON USER INTERFACE		
Function	Description	
Select Sensor	Pt100, TC types K, J, N, T, R, S	
Select Sample Rate	5, 10, 30, 60 seconds	
Enter Offset	±10.0 temperature units	
Select Temperature Units	°C or °F	

#### GENERAL

Function	Description			
Battery	2 x (AA 1.5 V alkaline) or (AA 1.5 V lithium*1)			
Battery life @ 20.0 °C typical				
Sample Rate	5 Seconds	10 Seconds	30 Seconds	60 Seconds
Alkaline	1 Year +	1.5 Years +	3 Years +	3 Years +
Lithium	2 Years +	3 Years +	4 Years +	5 Years +
*1 Lithium Energizer L91 Option		010010	1 Touro	o reale

## ENVIRONMENTAL

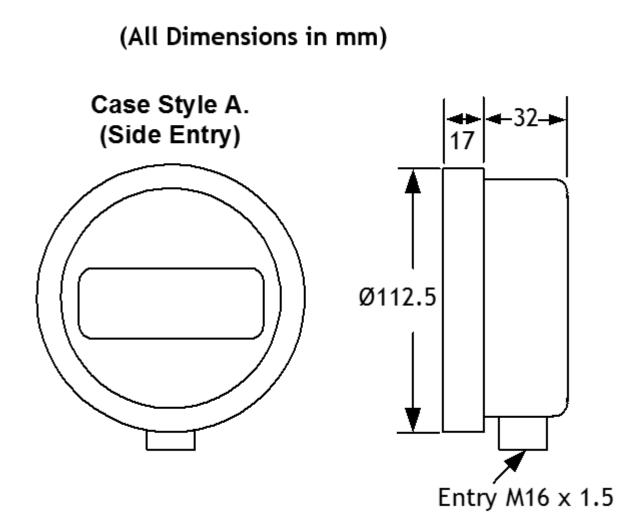
Function	Description
Ambient temperature	Operating/storage (-15 to 40) °C (Alkaline)
-	Operating/storage (-25 to 60) °C (Lithium Energizer L91)
Ambient humidity	Operating/storage (10 to 90) %RH non-condensing
Protection	IP65, sensor/probe entry must be sealed to IP65 to maintain

MECHANICAL		
Enclosure	Stainless steel, side entry for sensor/probe	
Case entries	1x M16 female thread	
Front bezel diameter	113 mm	
Weight (approximate)	540 g	
Input sensor	Two-part screw connector	

APPROVALS	
EMC	BS EN 61326: Note - Sensor input wires to be less than 3 m to comply
Ingress Protection	BS EN 60529
RoHS	Directive 2011/65/EU incorporating RoHS 3 Amendment Directive EU 2015/836
RoHS	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulation 2021

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ORDER CODE	
DM665TM/A	Supplied with 2 x 1.5 V AA alkaline batteries
DM665TM/NB	Supplied without batteries
DM665TM/L	Supplied with 2 x 1.5 V AA lithium batteries

To maintain full accuracy annual calibration is required contact support@status.co.uk for details. The data in this document is subject to change. Status Instruments assumes no responsibility for errors.



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