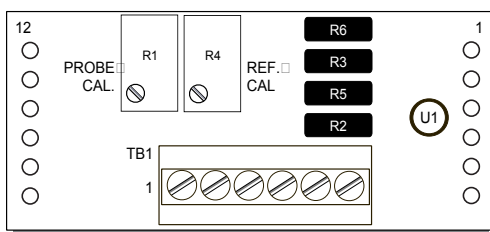


Discontinued

FEATURES

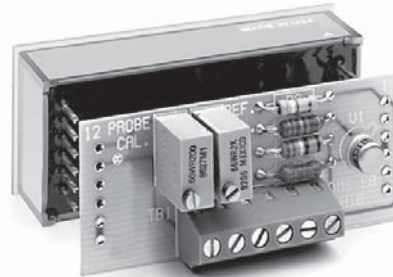
- Accepts inputs from user-supplied solid-state temperature sensors
- Available in °C or °F output readings
- 6-wire screw-type terminal block
- Measures temperatures from -55 to +150°C (-67 to +199.9°F)
- Use with DMS-30PC/LCD-0 meters



TA = 25°C, VCC = +5V

Functional Specifications

Measurement Range:	
DMS-EB-HTBC	-55 to +150°C
DMS-EB-HTBF	-67 to +199.9°F
Sensor Type	AD590 active linear device
Accuracy:	
Typical	±0.3°C (or °F)
Maximum	±1.0°C (or °F)
Operating Voltage Range	+5V (±10%)
Input Current (Board only):	
Typical	+0.8mA
Maximum	+1.0mA
Sensor Lead Length	3 feet, maximum
Operating Temperature Range	0 to +60°C
Storage Temperature Range	-20 to +75°C
Humidity (non-condensing)	0 to 95%,
Dimensions	
	2.02" (51.31mm)L
	0.83" (21.08mm)W



Description: The DMS-EB-HTB Application Boards accept inputs from user-supplied, AD590 solid-state temperature sensors. The boards can be used with any of Murata Power Solutions' ±200mV, 5V-powered DMS-30PC/LCD-0 Series, 3½ Digit, LED/LCD Display, Digital Panel Voltmeters — although better performance can be achieved with either LCD or low-power LED models. This meter/board combination provides extremely accurate (±0.3°C) temperature measurements over the range of -55 to +150°C (with DMS-EB-HTBC) or -67 to +199.9°F (DMS-EB-HTBF). Individual reference-adjust and probe-adjust potentiometers allow for "fine tuning" the AD590 output to precisely match the selected meter. A 6-wire, screw-type terminal block provides for quick, reliable, signal and power connections.

Calibration: R4 (Reference Adjust) is factory-calibrated to +459.8mV for °F and +273.2mV for °C (do not readjust). This measurement is taken between TB1 (pin 6) and pin 12 of the DMS-30PC/LCD-0. R1 (Probe Adjust) requires customer adjustment since every sensor has a slightly different zero offset. Calibration is simple: connect the sensor leads to TB1 and adjust R1 until the DMS-30's display matches a selected reference temperature indicator.

Ordering Information

DMS-EB-DC/DC	DC/DC converter board (with mating connector)
DMS-BZL1	Bezel assembly
DMS-BZL2	Bezel assembly with sealing gasket
RN-DMS	Resistor accessory kit

Ordering Information

DMS-EB-HTBC	High-accuracy temperature probe board, Celsius
DMS-EB-HTBF	High-accuracy temperature probe board, Fahrenheit
DMS-BZL1	Bezel assembly
DMS-BZL2	Bezel assembly with sealing gasket



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ISO 9001 and 14001 REGISTERED



**This product is subject to the following operating requirements
and the Life and Safety Critical Application Sales Policy:**
Refer to: <http://www.murata-ps.com/requirements/>

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[DMS-EB-HTBC-C](#) [DMS-EB-HTBF-C](#)