## **Benchtop Digital Thermometer**

# Single- and Ten-Channel Models Monogram Series





Transition junction and quick-disconnect thermocouples sold separately. TTSS-18U-6 shown, \$20. See page A-74.

Miniature quick-disconnect probes sold separately. GKMQSS-125U-6 shown, \$29. See page A-50.

**MDS41 Series** Starts at





- Front Panel Programmable for 9 Thermocouple Calibrations
- ✓ 0.2° Accuracy for Temperature
- ✓ 0.01° Resolution
- Min/Max Storage
- Optional Analog Output
- Optional RS232 Communications
- ✓ 115 Vac Power

The MDS41 is a high-precision digital benchtop meter, with 2 models that accept either thermocouple or RTD inputs. The large, easy-to-read 13 mm (0.5") display features 6 digits with 0.01° resolution. The thermocouple input model has 9 thermocouple types in memory, any one of which can be selected through the front panel. The RTD input model can be programmed for a linear resistance or one of two 100  $\Omega$  platinum curves, 0.00385 or 0.00392 (2- or 3- wire RTD). The unit is switchable to °C/°F/K.

The single-channel unit includes a universal rear connector which accepts either the miniature or standard quick disconnect connector. The 10-channel MDSS uses screw terminals for temperature input. Optional scalable analog output is available and can be ordered as a 0 to 10 Vdc or 4 to 20 mA. The analog output provides a retransmission of the measured temperature for recorders or dataloggers.

Refer to page M-31 in this section for more information on the DP41 series.

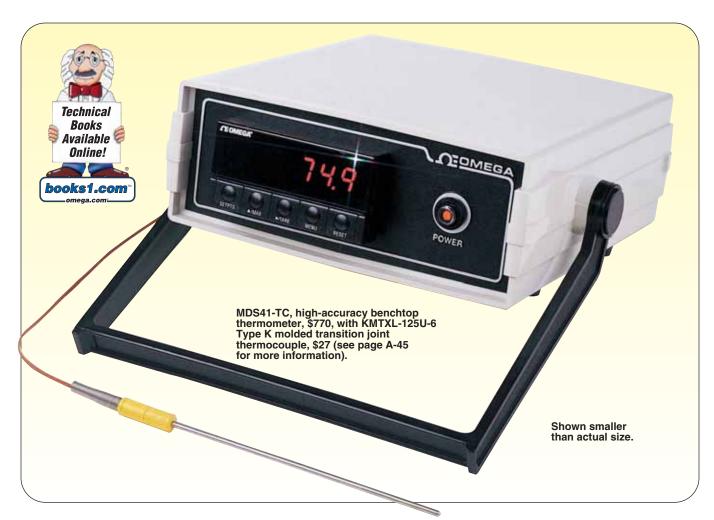


#### **MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)								
Model No.	Price	Input Type	No. of Channels					
MDS41-TC	\$770	T/C	1					
MDSS41-TC	820	T/C	10					
MDS41-RTD	770	RTD	1					
MDSS41-RTD	820	RTD	10					

Red LED display and 115 Vac power are standard. Add suffix "-**GN**" to model number for a green LED display; no add'l charge. Add suffix "-**A**" to model number for analog output; add **\$110**. Note: The analog output for the MDSS models is for the displayed channel only. To order units with optional RS232 communications, change "MDS" prefix in model no. to "MDSD" for single-output units, or change "MDSS" prefix for 10-channel units to "MDSSD", add suffix "-S2" to model no., and add \$160 to price.

Ordering Example: MDSD41-TC, single-channel benchtop indicator, thermocouple input and analog output, \$770.



#### **Economical Series**

The DS (single-input) and the DSS (10-input) benchtop cases are OMEGA's more economical cases. The DS and DSS cases maintain the versatility of panel meters and the portability of a benchtop. The DS and DSS are a beige color.

Refer to Page M-3 of the Digital **Panel Meter Selection Guide for Additional Meters and** Specifications.

Benchtop					
Monogram Series	Description				
MDS (*)	Single-input benchtop meter				
MDS-02 (*)	Single-input with rechargeable battery option				
MDSS (*)	10-input benchtop meter				
MDSS-02 (*)	10-input with rechargeable battery option				
<b>Economical Series</b>	Description				
DS (*)	Single-input benchtop meter				
DSS (*)	10-input benchtop meter				
* Insert model number of meter and thermocouple type.					

#### MOST POPULAR MODELS —OTHER MODELS AVAILABLE!

<b>Benchtop Model</b>								
Single-Channel	Price	10-Channel <sup>†</sup>	Price	Base Meter	Specs	Battery Option	Serial Comm.	Analog Output
MDS41-TC	\$770	MDSS41-TC	\$820	DP41-TC	M-27	MDS-02	Opt	Opt
MDS41-RTD	770	MDSS41-RTD	820	DP41-RTD	M-27	MDS-02	Opt	Opt
MDS116-(*)	370	MDSS116-(*)	420	DP116-(*)	M-13	MDS-02	_	Std
MDS25B-(*)	420	MDSS25B-(*)	470	DP25B	M-17	MDS-02	_	Opt

Comes with complete operator's manual.

\* Insert thermocouple type or the meter's specific range code.

<sup>†</sup> For 10-channel models, communication port can only access input currently selected by 10-point selector switch on front of unit.

Note: The benchtop models using the DP41-TC is programmable for any thermocouple type listed on the meter's specification sheet.

To order the DS version one channel replace the "MDS" in the model No. with DS subtract \$100 from the MDS price. To order the DSS ten channel version replace the "MDSS" in the Model No. with DSS subtract **\$100** from the MDSS price.

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