

Benchtop Digital Thermometer

Single- and Ten-Channel Models

MONOGRAM[®]
SERIES



Shown smaller than actual size.

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
\$770



- ✓ 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 Ω 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.



Rear panel showing sub-D connector for optional RS232 output.

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.



MDS41-TC, high-accuracy benchtop thermometer, \$770, with KMTXL-125U-6 Type K molded transition joint thermocouple, \$27 (see page A-45 for more information).

Shown smaller than actual size.

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
Economical Series	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!

Benchtop Model No.								
Single-Channel	Price	10-Channel [†]	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.

[†] 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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1-800-TC-OMEGA
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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters