



1/8 DIN Precision Thermistor Meter/Controller

**Ω MONOGRAM
SERIES**



DP25-TH, \$245, shown larger than actual size.

Panel punches available, visit omega.com/panelpunches

DP25-TH Series
Starts at
\$245



- ✓ Thermistor Input (8 Types)
- ✓ 4-Digit Display
- ✓ °C/°F Switchable
- ✓ Peak and Valley Recall
- ✓ Dual Programmable Setpoints
- ✓ Optional Analog Output
- ✓ Optional Latching/Non-Latching Relays
- ✓ NEMA 4 Front Bezel

The DP25-TH Series combines the features of a controller, monitor, and temperature limit alarm into one easy-to-use digital meter for applications that require maximum versatility. The DP25-TH accepts most popular thermistor inputs, such as Series 400 and 700 sensor inputs, and is highly accurate. Optional dual form "C" relays for control or alarm are available. Relay models offer the choice of linear or proportional analog output.

Specifications

Input: 44004 (2252 Ω), 44005 (3000 Ω), 44006 (10,000 Ω), 44007 (5000 Ω), 44016 (10,000 Ω) -112 to 302°F, 44008 (30,000 Ω) -40 to 302°F, 44018, 700 linear thermistor composite, -22 to 212°F [resistance at 25°C (77°F)]

Outputs: 2 form "C" (SPDT) relays, rated 5 A, 250 Vac; programmable for active high/low alarms with latching/non-latching relays

Relay Hysteresis: Programmable from 0 to 9999

Accuracy: 0.2°C (3.6°F) after 30 min warm-up

Temperature Coefficient: ±50 ppm/°C

Read Rate: 3/s

Step Response: 2 s

Power: 115 Vac, 230 Vac, 10 to 32 Vdc, 26 to 56 Vdc; 6 W; 240 Vrms overvoltage protection

Isolation: Dielectric strength to 2500V transient per 3 mm spacing based on EN 61010 for 260 Vrms or DC

NMR: 60 dB

CMR: 120 dB

Operating Temperature: 0 to 50°C (32 to 122°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Analog Output: Scalable 0 to 10 Vdc or 4 to 20 mA; optional

Dimensions: 48 H x 96 W x 152 mm D (1.89 x 3.78 x 6.0")

Panel Cutout: 45 x 92 mm W (1.772 x 3.622")

ON-401-PP,
\$50.

ON-402-PP,
\$96.

ON-403-PP,
\$70.

ON-404-PP,
\$140.

ON-405-PP,
\$70.

ON-408-PP,
\$156.

ON-409-PP,
\$62.

ON-410-PP, \$70.

OMEGA®
400 Series
thermistor
probes sold
separately.
See page D-21.

Price
includes
phone
termination
and 5 m
(10') of
vinyl lead
wire.

CUSTOM CONFIGURATIONS

Custom firmware and hardware available in quantity

**CUSTOM
COLORS**

Custom-color bezels and
enclosures are available for
original equipment
manufacturers.

Enhance the appearance of
your equipment design with
custom colors.

**Consult the
OMEGA® OEM
GROUP**



The following LVD (Low Voltage Directive/Safety) requirements have been met to comply with EN 61010-1, 1993 (Electrical equipment for measurement, control and laboratory use)

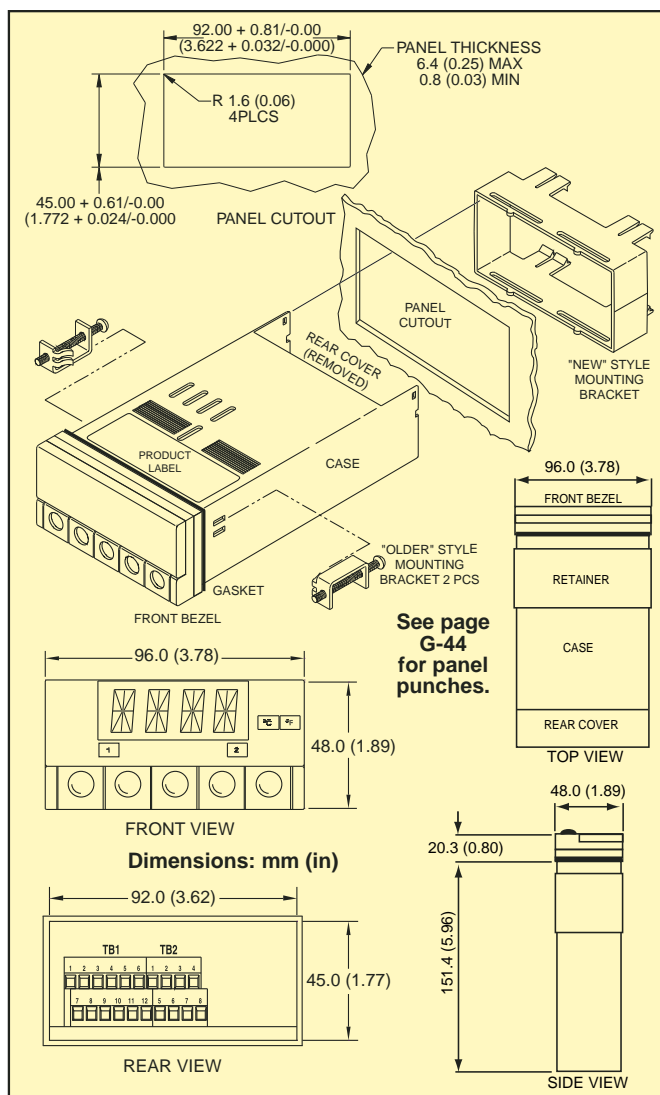
1. Pollution Degree 2 2. Installation Category II 3. Double Insulation

DP25/DP26/PHCN-37/ORCN-37/OPCN-37 complies with the following EMC Immunity Standards as tested per EN 50082-2, 1995 (Industrial environment)

Phenomena	Test Specification	Basic Standard
Electrostatic Discharge	+/- 4 kV contact discharge +/- 8 kV air discharge	IEC 1000-4-2 Perf. Criteria B
Radio Frequency electromagnetic field	27 - 1000 MHz 10 V/m 80% AM (1 KHz)	IEC 1000-4-3 Perf. Criteria A
Fast Transients	+/- 2 kV (ac mains) +/- 1 kV (dc, signal I/O) 5/50 ns Tr/Th, 5 KHz repit. Freq.	IEC 1000-4-4 Perf. Criteria B
Radio Frequency conducted	0.15 - 80 MHz 10 V/m 80% AM (1 KHz)	IEC 1000-4-6 Perf. Criteria A
Surges	+/- 2 kV line to earth +/- 1 kV line to line 1.2/50 (8/20) s Tr/Th	IEC 1000-4-5 Perf. Criteria B
Voltage Dips	30% reduction 10 ms 60% reduction 100 ms	IEC 1000-4-11 Perf. Criteria B
Voltage Interruption	>95% reduction 5000 ms Perf. Criteria C	IEC 1000-4-11

DP25/DP26/PHCN-37/ORCN-37/OPCN-37 comply with the following EMC Emission Standards as tested per EN 50081-1, 1997 (Residential, Commercial and Light Industrial)

Phenomena	Frequency Range	Limits	Basic Standard
Radiated Emission	30 - 230 MHz 230 - 1000 MHz	30 dB_V/m at 10 m 37 dB_V/m at 10 m quasi peak	CISPR 22 Class B
Conducted Emission	0.15-0.5 MHz 0.5-5 MHz 5-30 MHz	66-56 dB_V q.peak 56 dB_V quasi peak 60 dB_V quasi peak	CISPR 22 Class B



See page
G-44
for panel
punches.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
DP25-TH	\$245	Thermistor

Display and Output Options*

Order Suffix	Add'l Price	Description
-GN	N/C	Green display
-A	\$80	Analog output
-AI-R	90	Isolated analog output and relays
-R	70	Dual 5 A relays
-AR	150	Analog output and relays

Power Options*

Order Suffix	Add'l Price	Power
-230	N/C	230 Vac
-DC10/32	\$95	10 to 32 Vdc
-DC26/56	120	26 to 56 Vdc

Accessory

Model No.	Price	Description
DPP-5	\$525	1/8 DIN panel punch

Comes complete with operator's manual.

*Not field installable.

Ordering Example: DP25-TH-AR-DC10/32, thermistor indicator, low-voltage power, analog output and dual 5 A relays, \$245 + 150 + 95 = **\$490.**

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