

Compact $\frac{3}{64}$ DIN Size Temperature Meters with Full-Size LEDs



DP116 Series



DP116-KF1, shown smaller than actual size.

DP116-TC2-GR, shown smaller than actual size, with probe GKQSS-14U-12, sold separately.



Visit OMEGA thermocouple for the complete selection of thermocouples.

- ✓ Thermocouple and RTD Inputs
- ✓ Full-Size 14.2 mm (0.56") LED Display, $3\frac{1}{2}$ Digits
- ✓ Display Hold Capability
- ✓ Analog Output
- ✓ $\frac{1}{8}$ DIN Panel Adaptor Standard
- ✓ Safety-Rated, Removable Screw-Clamp Cable Connector
- ✓ RoHS 2 Compliant

Specifications

Accuracy, Thermocouple:

1.0° Models: $\pm 1.5^{\circ}\text{C}$ ($\pm 2.7^{\circ}\text{F}$) + 1 count

0.1° Models: $\pm 1^{\circ}\text{C}$ ($\pm 1.8^{\circ}\text{F}$) + 1 count

Accuracy, RTD:

0.1° Models: $\pm 0.3^{\circ}\text{C}$ ($\pm 0.5^{\circ}\text{F}$) + 0.2% rdg

1.0° Models: $\pm 0.1^{\circ}\text{C}$ ($\pm 0.2^{\circ}\text{F}$) + 0.2% rdg;

$\pm 1.5^{\circ}\text{C}$ ($\pm 2.7^{\circ}\text{F}$) maximum error

Analog Output (Non-Isolated):

0.1° Models: 10 mV/°

1.0° Models: 1 mV/°

Read Rate: 2.5/s

Response Time: 1 s

Display: $3\frac{1}{2}$ digit red LED, 14.2 mm (0.56") digits (optional green LED—no charge)

Power: 115 Vac, $\pm 15\%$, 50/60 Hz (optional 230 Vac or non-isolated 9/26 Vdc—no charge)

Power Consumption: 2 W

Operating Temperature: 0 to 60°C (32 to 140°F)

Dimensions: 24 H x 72 W x 120 mm D (0.94 x 2.83 x 4.72")

Weight: 200 g (7 oz)

Panel Cutout: $\frac{3}{64}$ DIN, 22 x 68 mm (0.87 x 2.68"); $\frac{1}{8}$ DIN adaptor (DP116-PB1) supplied with each unit



DP116-PB1, $\frac{1}{8}$ DIN mounting adaptor included, shown smaller than actual size.

To Order

Model No.	Input Type	Resol.	Range
DP116-JC1	J Iron-constantan	1°C	-210 to 760°C
DP116-JC2		0.1°C	-199.9 to 199.9°C
DP116-JF1		1°F	-346 to 1400°F
DP116-JF2		0.1°F	-199.9 to 199.9°F
DP116-KC1	K CHROME [®] -ALOMEGA [®]	1°C	-105 to 1372°C
DP116-KC2		0.1°C	-199.9 to 199.9°C
DP116-KF1	CHROME [®] -ALOMEGA [®]	1°F	-157 to 1999°F
DP116-KF2		0.1°F	-199.9 to 199.9°F
DP116-TC1	T Copper-constantan	1°C	-105 to 400°C
DP116-TC2		0.1°C	-199.9 to 199.9°C
DP116-TF1	Copper-constantan	1°F	-157 to 752°F
DP116-TF2		0.1°F	-199.9 to 199.9°F
DP116-EC1	E CHROME [®] -constantan	1°C	-105 to 1000°C
DP116-EC2		0.1°C	-199.9 to 199.9°C
DP116-EF1	CHROME [®] -constantan	1°F	-157 to 1832°F
DP116-EF2		0.1°F	-199.9 to 199.9°F
DP116-MC1	RTD 100 Ω Pt	1°C	-200 to 850°C
DP116-MC2		0.1°C	-199.9 to 199.9°C
DP116-MF1	100 Ω Pt	1°F	-328 to 1562°F
DP116-MF2		0.1°F	-199.9 to 199.9°F

Options

Order Suffix	Description
-230	230 Vac power
-9/26	9 to 26 Vdc non-isolated power
-GR	Green LED display

Accessories

Model No.	Description
SPC18	$\frac{1}{8}$ DIN NEMA 4 (IP65) splashproof lens/screw clamp
SPC364	$\frac{3}{64}$ DIN NEMA 4 (IP65) splashproof lens/screw clamp
DPP-2	$\frac{3}{64}$ DIN panel punch

Ordering Examples: DP116-KF1-GR-9/26, Type K meter with -157 to 1999°F range, 1° F resolution, green LED, and 9 to 26 Vdc non-isolated power.

DP116-KC1, Type K meter with -105 to 1372°C range, 1°C resolution, red LED, 115 Vac power.