

Universal 6/12 Channel 1/4 DIN Panel Meter



DP606A and DP612A Series



- ✓ Universal TC, RTD and Process Inputs Firmware Selectable
- ✓ User Programmable Alarms Individually Settable per Channel
- ✓ Adjustable Scan Time: 400ms Scan Rate per Channel
- ✓ 2 User Assignable Alarm Relays
- ✓ RS232/RS485 Communications
- ✓ Password Protection



DP612A, shown smaller than actual size.

The DP606A and DP612A Series is our newest line of affordable multi-channel panel meters. These models offer increased accuracy, wider operating temperatures and increased flexibility over the CN606 and CN612 models that they replace. The input, power and communications are also now isolated allowing for easier deployment and more reliable operation. The rugged extruded aluminum 1/4 DIN case combines with the improved isolation to provide an extremely durable product.

These meters can read up to 12 sensors and include user selectable RS232 or RS485 communications using Modbus®. Two user configurable Alarm relays are standard on all models. The universal input allows user selection between thermocouple (9 types), RTD 2-wire, RTD 3-wire, 4 to 20 mA and 1000 mV input options. These input selections are firmware selectable through the front panel buttons or Modbus serial commands.

Excellent fit for OEM instrumentation, automotive and aerospace test stand, factory automation, and power generation applications.

Note: While the inputs are universal and can be changed via firmware (no dip switches), all 6 or 12 inputs on a given unit must be set to the same type of input for operation.

Specifications

No. of Zones: 6¹ or 12
¹RTD 3 Wire 6 Channels for all models
Display: 15 mm 7-seg LED
Display Time: 1 to 99s
Scan Time: 400ms
Input Types:
TC: J, K, T, E, R, S, B, C, N
RTD: 2 or 3 wire
 PT100, 0.00385
 CU10, 0.00427
 NI120, 0.00672
Process: 4 to 20 mA, 0 to 1V
Resolution: 1°, 1 mV, 0.01 mA
Accuracy: See Chart Below
ADC: 24-bit Sigma Delta
Communications:
 RS232 and RS485 (User Selectable) Up to 115.2k baud, Modbus Protocol (RTU)

Input Power:

AC Models: 120/240 Vac; 50/60 Hz

DC Models: 9 to 36 Vdc
 3 watts maximum

ISOLATION PER 1 MIN

Power to Input:

AC Units: 2.3k Vac (3.2k Vdc)

DC Units: 1.5k Vdc

Power to Alarm Relay: 2.3k Vac (3.2k Vdc)

Power to Serial: 2.3k Vac (3.2k Vdc)

Input to Serial: 500 Vac (720 Vdc)

Alarm Relays:

AC Models: 240 Vac max
 5A max load

DC Models: 36 Vdc max
 3A max load

De-energizes on Alarm
 Latching or Non-Latching
 High, Low or Hi/Low

Operating Temp: -20 to 70°C (-4 to 158°F)

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

Panel Cutout: 1/4 DIN 92 x 92 mm (3.6 x 3.6")
Dimensions: 95 L x 95 W x 135 Dia mm
 (3.7 x 3.7 x 5.3")

Min Rear Panel Depth: 140 mm (5.5")

Weight: 725 g (26 oz)

APPROVALS

ECCN: EAR99

Safety: 2014/35/EU

EMC: 2014/30/EU

RoHS: 2011/65/EU

UL File No: E209855

UL/cUL Listed

Measurement Ranges and Accuracies based on Operating Temperature			Operating Temperature		
Input Type	Description	Range	Accuracy (25°C)	Accuracy (0 to 50°C)	Accuracy (-20 to 70°C)
Process	Process Voltage	0 to 1000 mV	± 1 mV	± 1 mV	± 1 mV
	Process Current	0 to 24.00 mA	± 10 µA	± 10 µA	± 10 µA
J Type T/C	J Iron-Constantan	-150 to 0°C	± 1.0°C	± 2.0°C	± 6.0°C
		0 to 1200°C	± 1.0°C	± 1.0°C	± 2.0°C
K Type T/C	CHROMEGA™ - ALOMEGA™	-150 to 0°C	± 1.0°C	± 2.0°C	± 5.0°C
		0 to -1372°C	± 1.0°C	± 1.0°C	± 2.0°C
T Type T/C	Copper-Constantan	-150 to 0°C	± 1.0°C	± 2.0°C	± 7.0°C
		0 to 400°C	± 1.0°C	± 1.0°C	± 2.0°C
E Type T/C	CHROMEGA™ -Constantan	-150 to 0°C	± 1.0°C	± 2.0°C	± 5.0°C
		0 to 1000°C	± 1.0°C	± 1.0°C	± 2.0°C
R Type T/C	Pt/13%Rh-Pt	-50 to 0°C	± 1.0°C	± 2.0°C	± 6.0°C
		0 to 1788°C	± 1.0°C	± 1.0°C	± 2.0°C
S Type T/C	Pt/10%Rh-Pt	-50 to 0°C	± 1.0°C	± 2.0°C	± 5.0°C
		0 to 1768°C	± 1.0°C	± 1.0°C	± 2.0°C
B Type T/C	30%Rh-Pt/6%Rh-Pt	150 to 700°C	± 1.0°C	± 2.0°C	± 3.0°C
		700 to 1820°C	± 1.0°C	± 1.0°C	± 1.0°C
C Type T/C	5%Re-W/26%Re-W	0 to 2320°C	± 1.0°C	± 1.0°C	± 3.0°C
N Type T/C	Nicrosil-Nisil	-150 to 0°C	± 1.0°C	± 2.0°C	± 5.0°C
		0 to 1300°C	± 1.0°C	± 1.0°C	± 2.0°C
RTD 2/3 Wire	Pt, 0.00385, 100 Ω	-200 to 850°C	± 1.0°C	± 1.0°C	± 1.0°C
RTD ¾ Wire	Cu, 0.00427, 10 Ω	-200 to 260°C	± 1.0°C	± 1.0°C	± 1.0°C
RTD ¾ Wire	Ni, 0.00672, 120 Ω	-80 to 260°C	± 1.0°C	± 1.0°C	± 1.0°C

To Order

Model No.	Description	Power	Zones
DP606A	1/4 DIN multi-channel panel meter	AC	6
DP612A	1/4 DIN multi-channel panel meter	AC	12
DP606A-DC	1/4 DIN multi-channel panel meter	DC	6
DP612A-DC	1/4 DIN multi-channel panel meter	DC	12