

## % DIN Digital Panel Meters **For Process Inputs** Panel Punches Available, Visit

DP63800-E Starts at

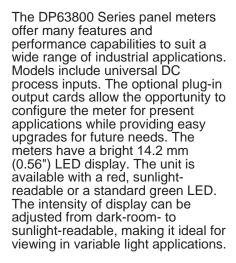








- Process Input
- ✓ 5-Digit, 14.2 mm (0.56") LED
- Green Display or Red Sunlight-Readable Display
- ✓ 20 mA or 10 Vdc Input
- Field-Upgradeable **Option Cards**
- AC and DC **Powered Versions**
- ✓ NEMA 4X (IP65)



The meters provide a max and min reading memory with programmable capture time. The capture time is used to prevent detection of false max or min readings which may occur during start-up or unusual process events.

The meters have 4 setpoint outputs, implemented on plug-in option cards. The plug-in cards provide dual form "C" relays (5 A), quad form "A" (3 A), or either quadsinking or quad-sourcing open collector logic outputs. The setpoint



DP63800-E, \$243, shown larger than actual size.

alarms can be configured to suit a variety of control and alarm requirements. Communication and bus capabilities are also available as option cards. These include RS232, RS485, and MODBUS®.

#### **Specifications**

Display: 5-digit, 14.2 mm (0.56") red sunlight-readable or standard green LEDs, (-19999 to 99999)

#### **AC Versions:**

AC Power: 85 to 250 Vac. 50/60 Hz, 15 VA

Isolation: 2300 Vrms for 1 min to all inputs and outputs DC Power: 11 to 36 Vdc, 11 W **AC Power: 2**4 Vac, ± 10%,

50/60 Hz, 15 VA

Isolation: 500 Vrms for 1 min to all inputs and outputs (50V working) **Keypad:** 3 programmable function

keys, 5 keys total A/D Converter: 16-bit resolution

#### **Update Rates**

A/D Conversion Rate: 20 readings/s Step Response: 200 ms max to within 99% of final readout value (digital filter and internal zero correction disabled); 700 ms max (digital filter disabled, internal zero correction enabled)

Display Update Rate: 1 to 20 updates/s

Setpoint Output On/Off Delay Time: 0 to 3275 seconds

ga.com/panelpunche

Analog Output Update Rate: 0 to 10 s Max/Min Capture Delay Time: 0 to 3275 seconds

Memory: Non-volatile EEPROM retains all programmable parameters and display values

#### **Environmental Conditions**

**Operating Temperature Range:** 0 to 50°C (32 to 122°F) [0 to 45°C (32 to 113°F) with all 3 plug-in cards installed]

Storage Temperature Range: -40 to 60°C (-40 to 140°F)

**Operating and Storage Humidity:** 0 to 85% max RH non-condensing **Altitude:** Up to 2000 m (6562') Connections: High-compression, cage-clamp terminal block

Construction: This unit is rated for NEMA 4X (IP65) outdoor use, IP20 touch-safe, Installation Category II, Pollution Degree 2, 1-piece bezel/case, flame-resistant, synthetic rubber keypad—panel gasket and mounting clip included

Weight: 295 g (10.4 oz) **Excitation Power** 

Transmitter Power: 24 Vdc, ±5%, regulated, 50 mA max

Output Modules: For complete specifications, see LDP63100 Series,

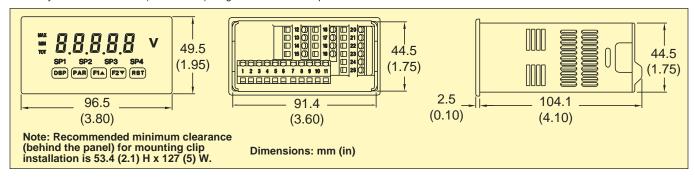
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#### **Process Inputs**

Input Range	Accuracy* (18 to 28°C)	Accuracy* (0 to 50°C)	Impedance/ Compliance	Max Continuous Overload	Display Resolution
20 mA (-2 to 26 mA)	0.03% of rdg + 2 µA	0.12% of rdg + 3 µA	20 Ω	150 mA	1 μΑ
10 Vdc (-1 to 13 Vdc)	0.03% of rdg + 2 mV	0.12% of rdg + 3 mV	500 Ω	300V	1 mV



<sup>\*</sup> After 20 minute warm-up. Accuracy is specified in 2 ways: accuracy over an 18 to 28°C (64 to 82°F) with a 10 to 75% RH environment and accuracy over a 0 to 50°C (32 to 122°F) with a 0 to 85% RH (non-condensing environment). Accuracy over the 0 to 50°C (32 to 122°F) range includes the temperature coefficient effect of the meter.



#### MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
Model No.	Price	Description (Display Meter Only, No Outputs)	
DP63800-E	\$243	DC Process inputs, red display, 85 to 250 Vac, 50/60 Hz	
DP63800-E-LV	270	DC Process inputs, red display, 11 to 36 Vdc, 24 Vac	
DP63800-E-GN	259	DC Process inputs, green display, 85 to 250 Vac, 50/60 Hz	
DP63800-E-GN-LV	287	DC Process inputs, green display, 11 to 36 Vdc, 24 Vac	

#### **Optional Plug-in Output Cards (Field Installable)**

Model No.	Price	Description		
Setpoint Alarms (Only 1 Alarm Card Can Be Installed Into Base Meter)				
LDP6-CDS10	\$37	Dual setpoint relay output card		
LDP6-CDS20	37	Quad setpoint relay output card		
LDP6-CDS30	37	Quad setpoint sinking open collector output card		
LDP6-CDS40	37	Quad setpoint sourcing open collector output card		
Analog Output				
LDP6-CDL10	\$74	Analog output card		
Communications (Only 1 Communications Card Can Be Installed Into Base Meter)*				
LDP6-CDC10	\$48	RS485 serial communications output card with terminal block		
LDP6-CDC1C	48	Extended RS485 serial communications output card with dual RJ11 connector		
LDP6-CDC20	48	RS232 serial communications output card with terminal block		
LDP6-CDC2C	48	Extended RS232 serial communications output card with 9-pin D connector		
LDP6-CDC40	58	MODBUS communications card		
LDP6-CDC4C	58	Extended MODBUS communications card with dual RJ11 connector		

<sup>\*</sup> Free software available at omega.com/dp63800-E Comes complete with operator's manual.

**Note:** Adding option cards—meters can be fitted with up to 3 optional plug-in cards, however, only 1 card from each function type can be installed at a time. The function types include setpoint alarms, analog output and communications. The cards can be installed initially or at a later date. Each optional plug-in card is shipped with installation and programming instructions.

Ordering Examples: DP63800-E-GN, DC process inputs, green display, 85 to 250 Vac, 50/60 Hz, and LDP6-CDL10 analog output card, \$259 + 74 = \$333.

DP63800-E-LV, DC process inputs, red display, 11 to 36 Vdc, 24 Vac, \$270.

#### Accessory

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

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