

pro^{sense} Digital Panel Meters - DPM3 Series 1/8 DIN



The ProSense DPM3 series offers a simple, feature packed digital display of analog process signals, temperature in either Fahrenheit or Celsius from RTD or thermocouple temperature sensors, load cell, or potentiometer inputs. The 5-digit tri-color red, green or amber LED display is easily scaled into any engineering units from -19999 to 39999 with a selectable decimal point location. Two point direct or reverse acting linear scaling values can be entered manually or by introducing actual sensed process values in Teach mode. Non-linear processes can be scaled by entering up to 11 scaling points. Models are available with two SPDT or four SPST relay outputs that can be set to activate on an increasing or decreasing input signal with hysteresis or

time delay operation. Additionally the display color can be set to change on relay operation. Models are also available with a 4-20mA analog output. The meter is powered from an external AC or DC power supply and provides both 24VDC and 10VDC for external sensor excitation. The 1/8 DIN housing is easy to install in a panel and the meter face has an IP65 rating. Configuration parameters can be totally or selectively locked out to prevent unauthorized or accidental changes to the meter's operation. Other features include memory and reset of minimum and maximum display values, three tare functions, display hold function, filtering to minimize display bounce, and display brightness adjustment. ProSense digital panel meters are backed by a 3 year warranty.

Features:

- 96 x 48mm 1/8 DIN
- Simple menu driven pushbutton configuration
- 14mm 5-digit (-19999 to 39999) tri-color (red, green, amber) LED display
- Selectable decimal point
- Process input ($\pm 10V$, $\pm 20mA$)
- Temperature input (RTD: Pt100, TC: J, K, T, N, Resolution: 1°F, 0.1°F, 1°C, 0.1°C)
- Potentiometer input
- Load cell input ($\pm 15mV$, $\pm 30mV$, $\pm 150mV$)
- AC or DC powered
- Sensor excitation voltage 24V and 10V
- Display scaling or process teaching modes
- 4-20mA analog output on select models
- (2) Form C SPDT or (4) Form A SPST relays on select models
- Activation on increasing or decreasing input signal
- Hysteresis or time delay operation
- Display color change on relay operation
- Configuration for direct or reverse acting linear processes and up to 11 point non-linear processes
- Total or selective configuration lock out
- Programmable functions include:
 - Minimum and maximum value memory
 - Minimum and maximum value reset
 - Tare
 - Hold
- Adjustable filtering to minimize display bounce
- Display brightness adjustment
- 3 year warranty



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DPM3 Series Panel Meters			
Model	Description	Weight (lbs)	Price
<u>DPM3-AT-H</u>	ProSense digital panel meter, 1/8 DIN, 14mm 5-digit tri-color (red, green, amber) LED, input current signal range(s) of +/- 20 mA, input voltage signal range(s) of +/- 10 VDC, +/- 150 mVDC, +/- 30 mVDC, +/- 15 mVDC, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, 85 to 265 VAC / 100 to 300 VDC operating voltage.	0.6	\$168.00
<u>DPM3-AT-2R-H</u>	ProSense digital panel meter, 1/8 DIN, 14mm 5-digit tri-color (red, green, amber) LED, input current signal range(s) of +/- 20 mA, input voltage signal range(s) of +/- 10 VDC, +/- 150 mVDC, +/- 30 mVDC, +/- 15 mVDC, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, (2) Form C (SPDT) relay(s), 8A @ 250 VAC, 8A @ 24 VDC, 85 to 265 VAC / 100 to 300 VDC operating voltage.	0.7	\$189.00
<u>DPM3-AT-4R-H</u>	ProSense digital panel meter, 1/8 DIN, 14mm 5-digit tri-color (red, green, amber) LED, input current signal range(s) of +/- 20 mA, input voltage signal range(s) of +/- 10 VDC, +/- 150 mVDC, +/- 30 mVDC, +/- 15 mVDC, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, (4) Form A (SPST) relay(s), 5A @ 250 VAC, 5A @ 30 VDC, 85 to 265 VAC / 100 to 300 VDC operating voltage.	0.7	\$204.00
<u>DPM3-AT-A-H</u>	ProSense digital panel meter, 1/8 DIN, 14mm 5-digit tri-color (red, green, amber) LED, input current signal range(s) of +/- 20 mA, input voltage signal range(s) of +/- 10 VDC, +/- 150 mVDC, +/- 30 mVDC, +/- 15 mVDC, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, output current signal range(s) of 4 - 20 mA, 85 to 265 VAC / 100 to 300 VDC operating voltage.	0.7	\$189.00
<u>DPM3-AT-A2R-H</u>	ProSense digital panel meter, 1/8 DIN, 14mm 5-digit tri-color (red, green, amber) LED, input current signal range(s) of +/- 20 mA, input voltage signal range(s) of +/- 10 VDC, +/- 150 mVDC, +/- 30 mVDC, +/- 15 mVDC, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, output current signal range(s) of 4 - 20 mA, (2) Form C (SPDT) relay(s), 8A @ 250 VAC, 8A @ 24 VDC, 85 to 265 VAC / 100 to 300 VDC operating voltage.	0.7	\$211.00
<u>DPM3-AT-L</u>	ProSense digital panel meter, 1/8 DIN, 14mm 5-digit tri-color (red, green, amber) LED, input current signal range(s) of +/- 20 mA, input voltage signal range(s) of +/- 10 VDC, +/- 150 mVDC, +/- 30 mVDC, +/- 15 mVDC, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, 22 to 53 VAC / 10.5 to 70 VDC operating voltage.	0.6	\$168.00
<u>DPM3-AT-2R-L</u>	ProSense digital panel meter, 1/8 DIN, 14mm 5-digit tri-color (red, green, amber) LED, input current signal range(s) of +/- 20 mA, input voltage signal range(s) of +/- 10 VDC, +/- 150 mVDC, +/- 30 mVDC, +/- 15 mVDC, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, (2) Form C (SPDT) relay(s), 8A @ 250 VAC, 8A @ 24 VDC, 22 to 53 VAC / 10.5 to 70 VDC operating voltage.	0.7	\$189.00
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Technical Specifications					
Process	Range	Input Impedance	Accuracy	Resolution	
	±10VDC	1MΩ	±(0.1% rdg + 1 digit)	1mV	
	±20mA DC	15Ω	±(0.1% rdg + 1 digit)	1μA	
Sensor Excitation	24V@60mA, 10V @ 60mA				
Potentiometer	Range	Input Impedance	Accuracy	Resolution	
	200Ω minimum	1MΩ	±(0.1% rdg + 1 digit)	0.005%	
Sensor Excitation	10V @ 60mA				
Load Cell	Range	Input Impedance	Accuracy	Resolution	
	±15mV, ±30mV, ±150mV	100MΩ	±(0.1% rdg + 1 digit)	1μV	
Sensor Excitation	10V @ 60mA				
Temperature	RTD	Pt100 (3-Wire)			
	Fixed display range / resolution	-200.0°C to 800.0°C / 0.1°C -200°C to 800°C / 1°C -328.0°F to 1472.0°F / 0.1°F -328°F to 1472°F / 1°F			
	Accuracy / resolution	±(0.2% rdg+0.6°C) / 0.1°C ±(0.2% rdg+1°C) 1°C ±(0.2% rdg+1°F) / 0.1°F ±(0.2% rdg+2°F)			
	Pt100 sensor excitation	<1mA DC			
	Max lead resistance	40Ω / cable (balanced)			
	Thermocouple	J	K	T	N
	Fixed display range / resolution	-150.0°C to 1100.0°C / 0.1°C -150°C to 1100°C / 1°C -238.0°F to 2012.0°F / 0.1°F -238°F to 2012°F / 1°F	-150.0°C to 1200.0°C / 0.1°C -150°C to 1200°C / 1°C -238.0°F to 2192.0°F / 0.1°F -238°F to 2192°F / 1°F	-200.0°C to 400.0°C / 0.1°C -200°C to 400°C / 1°C -328.0°F to 752.0°F / 0.1°F -328°F to 752°F / 1°F	-150.0°C to 1300.0°C / 0.1°C -150°C to 1300°C / 1°C -238.0°F to 2372.0°F / 0.1°F -238°F to 2372°F / 1°F
	Accuracy / resolution	±(0.4% rdg+0.6°C) / 0.1°C ±(0.4% rdg+1°C) 1°C ±(0.4% rdg+1°F) / 0.1°F ±(0.4% rdg+2°F) / 1°F	±(0.4% rdg+0.6°C) / 0.1°C ±(0.4% rdg+1°C) 1°C ±(0.4% rdg+1°F) / 0.1°F ±(0.4% rdg+2°F) / 1°F	±(0.4% rdg+0.6°C) / 0.1°C ±(0.4% rdg+1°C) 1°C ±(0.4% rdg+1°F) / 0.1°F ±(0.4% rdg+2°F) / 1°F	±(0.4% rdg+0.6°C) / 0.1°C ±(0.4% rdg+1°C) 1°C ±(0.4% rdg+1°F) / 0.1°F ±(0.4% rdg+2°F) / 1°F
	Cold junction compensation range	-10°C to 60°C (14°F to 140°F)			
	Offset programmable	-19.9° / +99.9°			
Conversion	Technique	Sigma-Delta			
	Resolution	±15 bits			
	Conversion rate	20 times per second			
Accuracy Conditions	Temperature coefficient	100 ppm/°C			
	Warm-up time	10 minutes			
	Temperature	23°C±5°C			

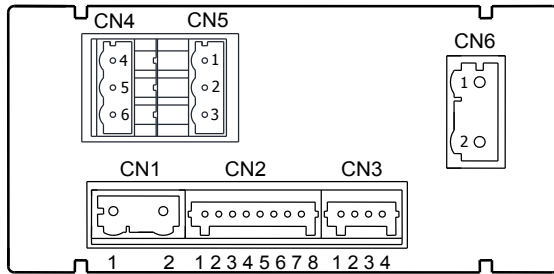
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Technical Specifications Continued			
Display	Range	-19999 / +39999, 5 LED digits 14mm (Programmable color Red, Green, Amber)	
	LEDs	8, functions and outputs status	
	Display refresh rate	Process / Load cell	20 times per second
		Pt100	20 times per second
		TC	10 times per second
Display / Input overrange indication	"oUEr", "oUEr"		
Relays	-2R: (2) Form C SPDT		
	-4R: (4) Form A SPST Normally Open with shared common		
Relays	Nominal contact rating.....8A at 250VAC / 24VDC Maximum switching current (resistive load).....8A Maximum switching power.....2000VA / 192W Maximum switching voltage.....400VAC / 125VDC Contact resistance.....≤100mΩ at 6VDC at 1A Operate time.....≤10ms	Nominal contact rating.....5A at 250VAC / 30 VDC Maximum switching current (resistive load).....5A Maximum switching power.....1250VA / 150W Maximum switching voltage.....250VAC / 30VDC Contact resistance.....≤100mΩ at 6VDC at 1A Operate time.....≤10ms	
Analog Output -A & -A2R Only	Type	4-20 mA Sourcing	
	Maximum load	≤500Ω	
	Resolution	13 bits	
	Accuracy	0.1%FS ±1 bit	
	Response time	10ms	
	Thermal drift	0.5μA / °C	
Power Supply and Fuses	-H High Voltage:	85-265 VAC 50/60 Hz (100-300 VDC), (recommended fusing 0.5A/250V, 5mm x 20mm glass miniature or DIN 41661 equivalent)	
	-L Low Voltage:	22-53 VAC 50/60 Hz (10.5 - 70 VDC), (recommended fusing 2A/250V, 5mm x 20mm glass miniature or DIN 41661 equivalent)	
Power Consumption	5W without options, 8W max.		
Filter	Cutoff frequency	4Hz to 0.05Hz	
	Slope	-20dB/Dec.	
Environmental Conditions	Operating temperature	-10°C to +60°C (14°F to 140°F)	
	Storage temperature	-25°C to +85°C (-13°F to 185°F)	
	Relative humidity (non-condensing)	<95% @ 40°C (104°F)	
	Maximum altitude	2000m	
	Frontal protection degree	IP65	
Environmental Air	No corrosive gases permitted		
Agency Approvals	CE		

proense® Digital Panel Meters - DPM3 Series 1/8 DIN

Wiring



Note: For additional wiring information download complete manual from www.AutomationDirect.com

CN1	
AC Supply	DC Supply
1 Line	1 VDC
2 Neutral	2 VDC

Polarity insensitive for DC power

CN3	
1	Common
2	Tare
3	Tare reset
4	Hold

CN2				
Input Signal / Excitation				
	Process	Temperature	Load Cell	
1	-EXC24V	---	-EXC10	
2	+EXC24V	---	---	
3	---	---	+EXC10	
4	---	Pt100 A	---	
5	+mA	---	---	
6	+V	---	---	
7	---	Pt100 B	+TC	+mV
8	-V / -mA (COM)	Pt100 B	-TC	-mV (COM)

Terminals					
Connector	CN1	CN2	CN3	CN4 & CN5	CN6
Wire cross section	0.08 to 2.5mm ² (28 to 12 AWG)	0.08 to 0.5mm ² (28 to 20 AWG)	0.08 to 0.5mm ² (28 to 20 AWG)	0.08 to 2.5mm ² (28 to 12 AWG)	0.08 to 2.5mm ² (28 to 12 AWG)
Strip length	8 to 9mm	5 to 6mm	5 to 6mm	8 to 9mm	8 to 9mm
Manufacturer	Wago 231-202/026-000	Wago 733-108	Wago 733-104	Wago 231-303/026-000	Wago 231-302/026-000
Cage clamp connection	Insertion tool or screwdriver with 0.5 mm x 3.0 mm blade	Insertion tool or screwdriver with 0.3 mm x 1.8 mm blade	Insertion tool or screwdriver with 0.3 mm x 1.8 mm blade	Insertion tool or screwdriver with 0.5 mm x 3.0 mm blade	Insertion tool or screwdriver with 0.5 mm x 3.0 mm blade

2 SPDT Relays (-2R)

CN4 (Relay 2)	
4	NO2
5	CM2
6	NC2

CN5 (Relay 1)	
1	NO1
2	CM1
3	NC1

4 SPST Relays (-4R)

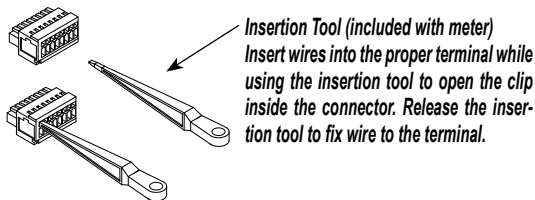
CN4	
4	NO4
5	Unused
6	CM (All)

CN5	
1	NO1
2	NO2
3	NO3

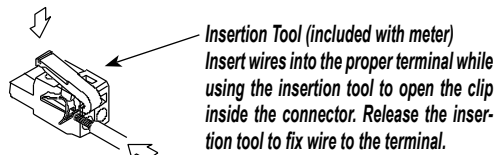
NO: Normally open, CM: Common, NC: Normally closed

CN6	
Analog Output	
1	(-) 4-20mA
2	(+) 4-20mA

CN2 and CN3 Terminals

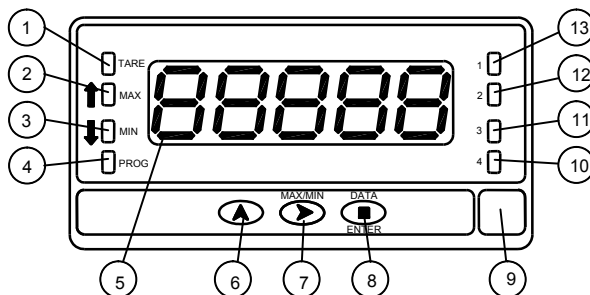


CN1, CN4, CN5 and CN6 Terminals



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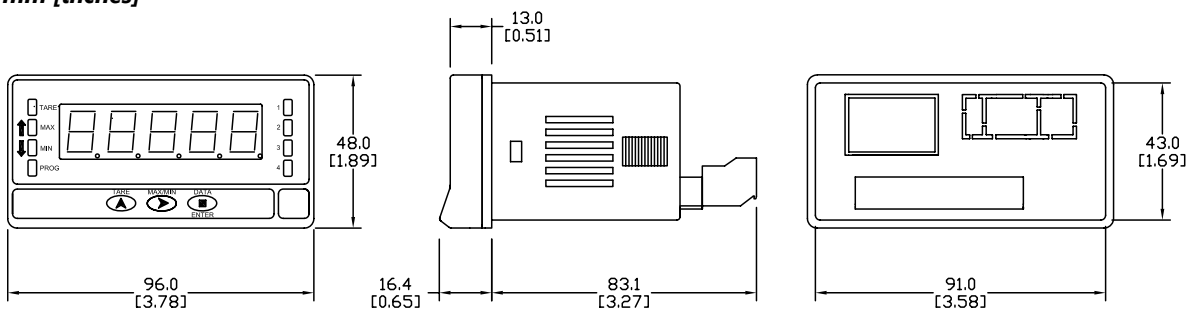
Programming Panel



Programming Panel			
#	Description	Run Mode	Programming Mode
1	TARE	Indicates tare in the memory	---
2	MAX	Indicates peak displayed	---
3	MIN	Indicates valley displayed	---
4	PROG	---	Indicates programming mode
5	DISPLAY	Displays the input variable	Displays programming parameters
6	UP/TARE KEY	Takes on the display value as tare	Increments the value of the flashing digit
7	SHIFT/MAX/MIN KEY	Recalls Max/Min values	Moves to the right
8	ENTER KEY	Enters in PROG mode. Displays data	Accepts data. Advances program
9	Free space for units label	---	---
10	LED Output 4	Activation output 4	Programming output 4
11	LED Output 3	Activation output 3	Programming output 3
12	LED Output 2	Activation output 2	Programming output 2
13	LED Output 1	Activation output 1	Programming output 1

Dimensions

mm [inches]



See our website www.AutomationDirect.com for complete Engineering drawings.

Installation	
Dimensions	96 x 48 x 83.1 mm (1/8 DIN)
Panel Cutout	92 x 45mm (Max. panel thickness 10mm)
Case Material	Polycarbonate UL 94 V-0

Insert



Scan or click the above QR code to be taken to the DPM3 Series Quick Start Guide

Manual



Scan or click the above QR code to be taken to the DPM3 Series Manual

proSense® Digital Panel Meters DPM Series

Description

The ProSense DPM family of digital panel meters includes both 1/32 DIN and 1/8 DIN meter sizes with simple menu-driven pushbutton configuration. A wide variety of input signals can be accepted for process, temperature, load cell, voltage, current, pulse, frequency, and other applications. Available output options include alarm relays, analog signal retransmission, and sensor excitation voltage. Backed by a 3-year warranty, ProSense digital panel meters offer outstanding features and performance at an incredible price point.



Type DPM1-A-LP



Type DPM1-A-T



Type DPM1-A-2R



Type DPM2



Type DPM2L



Type DPM3



Click on the thumbnail or go to <https://www.automationdirect.com/VID-PS-0007> for a short video on Digital Panel Meters

DPM Series Digital Panel Meters Process Input Selection Guide

Model	Size	Display	Inputs	Outputs	Power	Price			
DPM1-A-LP	1/32 DIN	10mm, Red LED*, -1999 to 9999 Selectable decimal point	4-20mA	None	Loop Powered	\$101.00			
DPM1-A-H			$\pm 20\text{mA}$, $\pm 100\text{mV}$ $\pm 10\text{V}$, $\pm 20\text{V}$ $\pm 200\text{V}$		85-265 VAC, 50/60 Hz 100-300 VDC	\$116.00			
DPM1-A-L					21-53 VAC, 50/60 Hz 10.5-70 VDC	\$116.00			
DPM1-T-H			10mm, Red LED, -1999 to 9999		RTD Pt100 (3-wire) TC Type J, K, T or N	85-265 VAC, 50/60 Hz 100-300 VDC	\$116.00		
DPM1-T-L						21-53 VAC, 50/60 Hz 10.5-70 VDC	\$116.00		
DPM1-A-2R-H			8mm, Red LED, -1999 to 9999 Selectable decimal point			$\pm 20\text{mA}$, $\pm 100\text{mV}$ $\pm 10\text{V}$, $\pm 60\text{V}$	2 Relays Form A SPST Normally Open	85-265 VAC, 50/60 Hz 100-300 VDC	\$128.00
DPM1-A-2R-L								21-53VAC 50/60 Hz 10.5-70VDC	\$128.00
DPM1-A-A2R-H							2 Relays Form A SPST Normally Open	85-265 VAC, 50/60 Hz 100-300 VDC	\$141.00
DPM1-A-A2R-L							21-53 VAC, 50/60 Hz 13.5-70 VDC	\$141.00	
DPM2-AT-HL			DPM2: 14mm, Red LED, -9999 to 9999 DPM2L: 20mm, Red LED, -1999 to 9999 Selectable decimal point			$\pm 20\text{mA}$, $\pm 10\text{V}$ $\pm 200\text{V}$, 100-100k Ohm potentiometer, 1k-50k Ohm resistance, RTD Pt100 (3-wire) RTD Pt1000 (4-wire) TC Type J, K, T or N	None	20-265 VAC, 50/60 Hz 11-265 VDC	\$135.00
DPM2L-AT-HL		\$145.00							
DPM2-AT-2R-HL	2 Relays Form C SPDT	\$148.00							
DPM2L-AT-2R-HL		\$159.00							
DPM3-AT-H	1/8 DIN	14mm, Red, Green, Amber LED -19999 to 39999 Selectable decimal point	$\pm 20\text{mA}$, $\pm 10\text{V}$ RTD Pt100 (3-wire) TC Type J, K, T or N Load Cell $\pm 15\text{mV}$, $\pm 30\text{mV}$, $\pm 150\text{mV}$ Potentiometer	None	85-265 VAC, 50/60Hz 100-300 VDC	\$168.00			
DPM3-AT-2R-H				2 Relays Form C SPDT		\$189.00			
DPM3-AT-4R-H				4 Relays Form A Normally Open with shared common		\$204.00			
DPM3-AT-A-H				4-20mA		\$189.00			
DPM3-AT-A2R-H				2 Relays Form C SPDT 4-20mA		\$211.00			
DPM3-AT-L				None		\$168.00			
DPM3-AT-2R-L				2 Relays Form C SPDT		\$189.00			
DPM3-AT-4R-L				4 Relays Form A Normally Open with shared common		22-53 VAC, 50/60 Hz 10.5-70 VDC	\$204.00		
DPM3-AT-A-L				4-20mA		\$189.00			
DPM3-AT-A2R-L				2 Relays Form C SPDT 4-20mA		\$211.00			

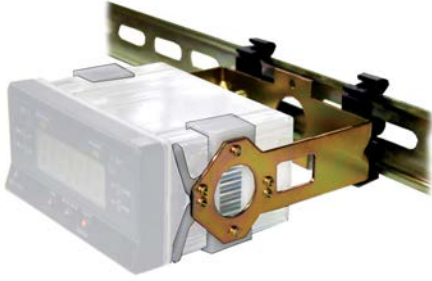
* Illumination based on available loop current and will not be as bright as the powered Digital Panel Meters

pro^{ense} Digital Panel Meters DPM Series

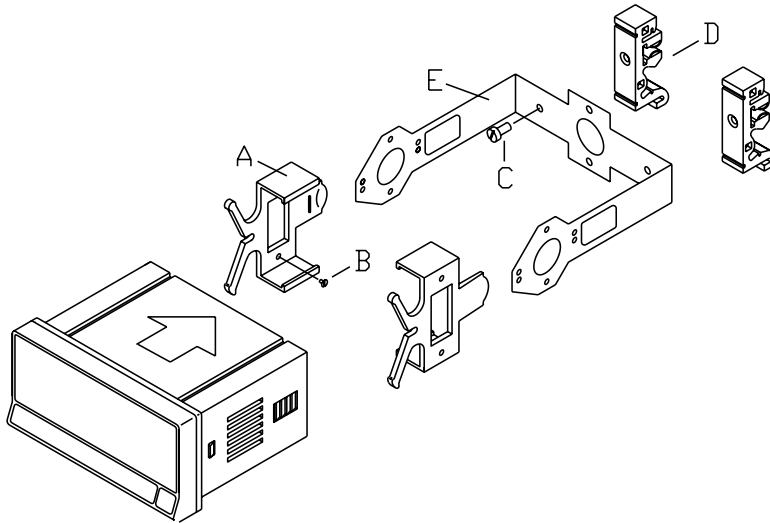
DPM Series Digital Panel Meters Electrical Input Selection Guide						
Model	Size	Display	Inputs	Outputs	Power	Price
<u>DPM1-E-H</u>	1/32 DIN	10mm, Red LED, -1999 to 9999 Selectable decimal point	100 / 600 VAC or VDC 1A / 5A AC or DC	None	85-265 VAC, 50/60 Hz 100-300 VDC	\$116.00
<u>DPM1-E-L</u>					21-53 VAC, 50/60Hz 10.5-70 VDC	\$116.00
<u>DPM2-E-HL</u>	1/8 DIN	14mm, Red LED, -9999 to 9999	600 / 200 / 20 VAC or VDC 1A / 5A / shunt 60mV / shunt 100mV AC or DC	None	20-265 VAC, 50/60 Hz 11-265 VDC	\$135.00
<u>DPM2-E-2R-HL</u>				2 Relays Form C SPDT		\$148.00
<u>DPM3-E-H</u>		14mm, Red, Green, Amber LED -19999 to 19999 Selectable decimal point	600 / 200 / 20 / 2 VAC True RMS or VDC 1A / 5A / shunt 50mV / shunt 60mV / shunt 100mV AC True RMS or DC	None	85-265 VAC 100-300 VDC	\$196.00
<u>DPM3-E-A2R-H</u>				2 Relays Form C SPDT 4-20mA		\$232.00
<u>DPM3-E-L</u>				None	22-53 VAC 10.5-70 VDC	\$196.00
<u>DPM3-E-A2R-L</u>				2 Relays Form C SPDT 4-20mA		\$232.00

DPM Series Digital Panel Meters Pulse, Frequency Input Selection Guide						
Model	Size	Display	Inputs	Outputs	Power	Price
<u>DPM1-P-H</u>	1/32 DIN	10mm, Red LED, 0 to 9999 Selectable decimal point	7kHz (tachometer rpm or rate modes) 9999Hz (frequency meter mode)	None	85-265 VAC 100-300 VDC	\$116.00
<u>DPM1-P-L</u>					1-53 VAC 10.5-70 VDC	\$116.00
<u>DPM1-P-A2R-H</u>		8mm, Red LED, 0 to 9999 Selectable decimal point	12kHz (tachometer rpm or rate modes) 9999Hz (frequency mode) 100Hz (duty/PWM mode)	2 Relays Form A SPST Normally Open 4-20mA	85-265 VAC 100-300 VDC	\$141.00
<u>DPM1-P-A2R-L</u>					21-53 VAC 13.5-70 VDC	\$141.00
<u>DPM2-P-HL</u>	1/8 DIN	14mm, Red LED, 0 to 9999, 0 to 999999 Totalizer Selectable decimal point	7.5 kHz (counter mode) 25kHz (tachometer rpm or rate modes)	None	20-265 VAC 11-265 VDC	\$135.00
<u>DPM2-P-2R-HL</u>				2 Relays Form C SPDT 4-20mA		\$148.00
<u>DPM3-P-H</u>	1/8 DIN	14mm Red, Green, Amber LED -99999 to 99999, -9999999 to 99999999 Totalizer Programmable decimal point	19kHz (without totalizer) 9.9 kHz (with totalizer)	None	85-265 VAC 100-300 VDC	\$168.00
<u>DPM3-P-A2R-H</u>				2 Relays Form C SPDT 4-20mA		\$211.00
<u>DPM3-P-L</u>				None	22-53 VAC 10.5-70 VDC	\$168.00
<u>DPM3-P-A2R-L</u>				2 Relays Form C SPDT 4-20mA		\$211.00

pro^{ense} Digital Panel Meter Accessories



Panel Meter Accessories			
Model	Description	Weight (lbs)	Price
DPM-BKT1	ProSense panel mount bracket, for use with DPM2 and DPM3 series 1/8 DIN digital panel meters. Hardware included.	0.3	\$22.00



The DPM-BKT1 kit includes:

- A. 2 mounting clips.
 - B. 4 screws M3 x 6 DIN 963 to attach the clips to the inside of the arms of part E.
 - C. 2 screws M4 x 8 DIN 84 to attach DIN rail clips to part E.
 - D. 2 DIN rail clips (DIN rail EN50022 or EN50035).
 - E. 1 metal bracket.
- (Panel Meter not included)

Insert



Scan or click the above QR code to be taken to the [DPM-BKT1 Insert](#)

See our website www.AutomationDirect.com for complete Engineering drawings.