

# 1/8 DIN Programmable Process Scanners 4- and 7-Channel Inputs

DPS3000  
Starts at



Panel punches available, visit [omega.com/panelpunches](http://omega.com/panelpunches)

DPS3104, \$468, shown smaller than actual size.



- ✓ Process Voltage, Current or Thermocouple Input
- ✓ Auto/Manual Scanning
- ✓ Rate, Min/Max and Channel Differentials
- ✓ 4-Digit Display Plus 3 Alphanumeric
- ✓ Separate Limit Relay and Independent Scaling for Each Channel
- ✓ Built-In Buzzer to Sound Alarm on Models with Outputs

DPS3000 Series scanners monitor up to seven individual inputs. Each channel on the DPS3204 and DPS3207 can be programmed to accept different types of inputs, while DPS3104 and DPS3107 are limited to one input type on all channels. Temperature is displayed in °C or °F, while process voltage and current signals can be scaled to engineering units. All models can be set up to display in any one of six operating modes: automatically scan and display each channel; show elapsed time; display the channel with highest or lowest reading; scan each channel's deviation from a preset setpoint; show differential between a 'master' channel and other inputs.

## Specifications

**Accuracy:** 0.5% reading (J, K, T, E: 1°C; S: 2°C; R, B: 3°C)  
**CJC Error:** 1°C (10 to 40°C)  
**Scale:** 1 to 30,000  
**Resolution:** 1°C/°F (0.1°C/°F for thermistor input); 0.025% FS  
**Power:** 120 Vac, 60 Hz; 240 Vac, 50 Hz (optional); 9 to 15 Vdc, 900 mA (optional)  
**Scan Rate:** Fixed, 2 channels/second  
**Channel Display Time:** 1 to 999 seconds per channel

## Power and Output Options

DPS3100, DPS3104, DPS3200, DPS3204

Ordering Suffix	Description
-1	240 Vac power
-2	9 to 15 Vdc power
-3	UHODV36/
-4	7 DC drivers (DPS310 , 320 )
-5	4 relays (DPS3104, 3204)
-6	4 DC drivers (DPS3104, 3204)
EE-1319	Reference Book: Grounding and Shielding Techniques

## Accessory

Model No.	Description
DPP-5	1/8 DIN panel punch

**Alarms (Optional):** Mechanical relay; 1 A @ 28 Vdc or 0.5 A @ 120 Vac, SPST, programmable as NO/NC, DC driver; 5 Vdc @ 50 mA; 1 alarm per channel

**Deadband:** 2 to full scale, programmable

**Dimensions:** 57 H x 112 W x 178 mm D (2.25 x 4.4 x 7")

**Cutout:** 1/8 DIN; 45 x 92 mm (1.772 x 3.662"); 180 mm (7.0") depth

**Weight:** 1.2 kg (2.8 lb)

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To Order (Specify Model Number)		
Model No.	Description	
<b>Dedicated Input 4 and 7 Channel Scanner</b>		
DPS3104-(*)	4-channel scanner (same input type on all 4 channels)	
DPS3107-(*)	7-channel scanner (same input type on all 7 channels)	
<b>Programmable Input 4 and 7 Channel Scanner</b>		
DPS3204-(*)	4-channel scanner (input channels are independently programmable)	
DPS3207-(*)	7-channel scanner (input channels are independently programmable)	

\* Note: Add input code from chart below.

Input Code	Dedicated Input	Programmable Input
R	R	R, 4 to 20 mA, 0 to 10 Vdc
S	S	S, 4 to 20 mA, 0 to 10 Vdc
B	B	B, 4 to 20 mA, 0 to 10 Vdc
TC	J, K, T, E	J, K, T, E, 4 to 20 mA, 0 to 10 Vdc
RTD	RTD (385 and 392 curve)	RTD (385 and 392 curve), 4 to 20 mA, 0 to 10 Vdc
TH	400 series thermistor	400 series thermistor, 4 to 20 mA, 0 to 10 Vdc
MV	0 to 100 mV	—
V	0 to 10 Vdc	—
C	4 to 20 mA	—
P	—	0 to 100 mV, 0 to 10 Vdc, 4 to 20 mA

Comes complete with operator's manual.

**Ordering Examples:** DPS3104-C-5, 4-channel scanner, process input (4 to 20 mA), with 4 mechanical relays,

DPS3207-TC, 7-channel scanner, programmable inputs,



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