

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

DPS3000
Starts at



Panel punches
available, visit
omega.com/panelpunches

DPS3104,
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	7 relays (DPS3107, 3207)
-4	7 DC drivers (DPS3107, 3207)
-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)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Description
Dedicated Input 4 and 7 Channel Scanner	
DPS3104-(*)	4-channel scanner (same input type on all 4 channels)
DPS3107-(*)	7-channel scanner (same input type on all 7 channels)
Programmable Input 4 and 7 Channel Scanner	
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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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters