

PROGRAMMABLE PROCESS SCANNERS

1/8 DIN, 4- AND 7-CHANNEL INPUT

DPS3100 Series

Starts at
\$468



Panel punches available, visit omega.com/panelpunches

- ✓ 2-Year Warranty
- ✓ 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 Alarm Buzzer

DPS3000 Series scanners monitor up to 7 individual inputs. Each channel on the DPS3207 and DPS3204 can be programmed to accept different types of inputs, while the DPS3107 and DPS3104 are limited to 1 input type on all channels. Temperature is °C or °F selectable. Process voltage and current signals can be scaled to engineering units.

The user can select 1 of 6 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% of reading (J, K, T, E: 1°C; S: 2°C; R, B: 3°C)

CJC Error: ±1°C (1.8°F) from 10 to 40°C (50 to 104°F)

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 per second

Channel Display Time: 1 to 999 seconds per channel

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 one alarm per channel (channel 7 is monitoring only)

Deadband: 2 to full scale, programmable

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)

Recommended Reference Book:
Controller Tuning PID without Math, **GE-2117, \$23**
See Section Y For Additional Books



DPS3207-TC, \$767, shown actual size.

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

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
Dedicated-Input 4- and 7-Channel Scanner		
DPS3104-(*)	\$468	4-channel scanner (same input type on all 4 channels)
DPS3107-(*)	656	7-channel scanner (same input type on all 7 channels)
Programmable-Input 4- and 7-Channel Scanner		
DPS3204-(*)	\$579	4-channel scanner (input channels are independently programmable)
DPS3207-(*)	767	7-channel scanner (input channels are independently programmable)

* Specify input code from chart above.

Ordering Examples: DPS3104-C-5, 4-channel scanner, process input (4 to 20 mA), with 4 mechanical relays, \$468 + 111 = \$579.

DPS3207-TC, 7-channel scanner, programmable inputs, \$767.

POWER AND OUTPUT OPTIONS

ORDERING SUFFIX	ADD'L PRICE	DESCRIPTION
-1	N/C	240 Vac power
-2	\$28	9 to 15 Vdc power
-3	193	7 relays (DPS3107, 3207)
-4	193	7 DC drivers (DPS3107, 3207)
-5	111	4 relays (DPS3104, 3204)
-6	111	4 DC drivers (DPS3104, 3204)



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

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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

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• 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