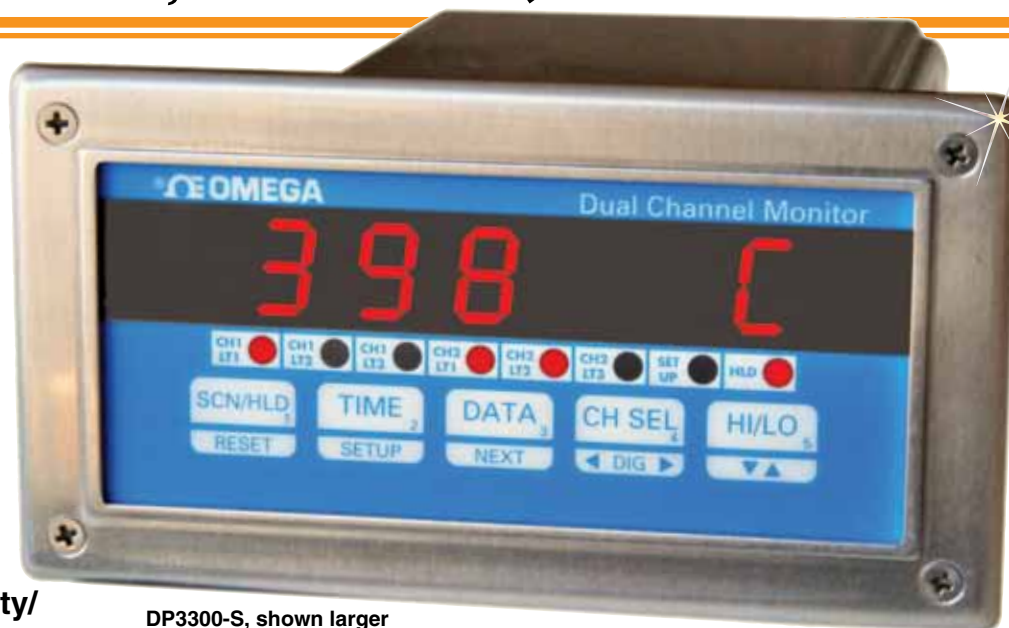


DUAL-CHANNEL PROCESS MONITOR $\frac{1}{8}$ DIN

PROGRAMMABLE INPUTS ACCEPT THERMOCOUPLES, THERMISTORS, RTDs, VOLTAGE, CURRENT, AND PULSE OR SQUARE-WAVE SIGNALS

DP3300 Series



DP3300-S, shown larger than actual size.

- ✓ Monitors Flow/ Temperature, Flow/ Pressure, or Humidity/ Temperature
- ✓ Pulse Input Channel Monitors Count, Rate, RPM, or Frequency
- ✓ Programmable Scaling on Both Channels
- ✓ Auto/Manual Scanning of Channels
- ✓ 6 Counter Modes
- ✓ Works as Totalizer and Batch Counter
- ✓ Programmable Time Base for Rate
- ✓ Shows Channel Differentials (C1-C2, C2-C1)
- ✓ Displays Frequency in 0.01 Hz Resolution
- ✓ 3 Programmable Alphas for Engineering Units on Analog Channel
- ✓ Relay Status Indication on Front Panel
- ✓ 2 Alarm Relays for Each Channel (Optional)
- ✓ Min/Max Readings
- ✓ Built-In Alarm Buzzer
- ✓ Keeps Track of Process Run Time
- ✓ Password Security to Prevent Unauthorized Program Changes



The DP3300 comprises highly versatile dual-input meters that can monitor either 2 analog inputs or an analog input and a pulse input. On the analog channel, signals from thermocouples, RTDs, or thermistors are linearized and displayed in °C or °F. Voltage, current and millivolt inputs can be easily scaled. The pulse input on both channels can function as an up/down counter or as a rate, rpm, or frequency monitor. Scaling can easily be performed on the front-panel keypad (e.g., pulses from a flowmeter can yield the flow rate).

In counter mode, the DP3300 offers 3 presets along with built-in delay timers. As a rate indicator,

it furnishes a programmable time base from 0.100 to 9999.999 seconds. In rpm mode, the channel counts incoming pulses and displays the data as revolutions per minute.

Options include 220 Vac and 15 Vdc power supplies, 4-relay or open-collector outputs.

SPECIFICATIONS

Input for Channel 1 (Analog):

J, K, T, E, R, S, B thermocouples; thermistors; RTDs 4 to 20 mA loop current 0 to 10 Vdc 0 to 100 mV

Alarms Relays (Optional):

1 A @ 28 Vdc or 0.5 A @ 120 Vac, SPST

1/8 DIN DUAL-CHANNEL PROCESS MONITOR

DC Driver: 5 Vdc @ 50 mA

Scale/Offset: Programmable
from 1 to 30,000

Offset:

Current: 0 to 20

Voltage: 0 to 10

Millivolt: 0 to 100

Decimal Point: Programmable;
no decimal point, 10th, 100th and
1000th position

Input for Channel 2

0 to 5 Vdc pulse or square-wave input
(Schmitt trigger on the input)

Input Low: 0.0 Vdc minimum,
0.6 Vdc maximum

Input High: 2.5 Vdc minimum,
5.0 Vdc maximum

RPM Range: 1 to 999,999

Count Range: 1 to 9,999,999

Rate Range: Varies with time base—
9,999,999 maximum

Time Base for Rate:

0.100 to 9999.999 s

High Frequency Range: 2 Hz to 2 MHz

Low Frequency Range: 2 to 500 Hz

Display: Red, 7-segment LED display,
10 mm (0.39") high

Power Options: 120 Vac to 60 Hz,
220 Vac to 50 Hz (optional),
15 Vdc @ 900 mA (optional)

Accuracy:

Temperature Resolution: 1°C/°F

Voltage: 0.05% full scale

Current: 0.05% full scale

Dimensions: 43 H x 91 W x 178 mm D
(1.7 x 3.6 x 7")

Bezel Dimensions: 43 H x 91 mm W
(1.7 x 3.6")

Panel Cutout: 45 H x 92 mm D
(1.77 x 3.66"); 1/8 DIN

Weight: 1.4 kg (3 lb)



OMEGACARESM extended warranty
program is available for models
shown on this page. Ask your sales
representative for full details when
placing an order.

ACCESSORY

MODEL NO.	DESCRIPTION
DPP-5	1/8 DIN panel punch

INPUT RANGES

TYPE	RANGE	ACCURACY
J Iron-Constantan	-200 to 1190°C -328 to 2174°F	±1°C ±1 count ±2°F ±1 count
K CHROMEGA®-ALOMEGA®	-170 to 1370°C -274 to 2500°F	±1°C ±1 count ±2°F ±1 count
T Copper-Constantan	-160 to 400°C -256 to 752°F	±1°C ±1 count ±2°F ±1 count
E CHROMEGA®-Constantan	-185 to 915°C -300 to 1675°F	±1°C ±1 count ±2°F ±1 count
R Pt/13%Rh-Pt	0 to 1600°C 32 to 2900°F	±3°C ±1 count ±6°F ±1 count
S Pt/10%Rh-Pt	0 to 1600°C 32 to 2900°F	±3°C ±1 count ±6°F ±1 count
B Pt/30%Rh- Pt/6%Rh	470 to 1800°C 900 to 3300°F	±3°C ±1 count ±6°F ±1 count
RTD 0.00385 (2-wire)	-200 to 800°C -328 to 1472°F	±1°C ±1 count ±2°F ±1 count
RTD 0.00392 (2-wire)	-100 to 450°C -148 to 842°F	±1°C ±1 count ±2°F ±1 count
Thermistor 400 Series, 2252 Ω	-8.0 to 100.0°C 17.2 to 212.0°F	±0.5°C ±1 count ±1.0°F ±1 count
Current	4 to 20 mA	0.05% ±1 count
Millivolts	0 to 100 mV	0.05% ±1 count
Voltage	0 to 10 Vdc	0.05% ±1 count
Pulse (Second Channel)	0 to 5 Vdc or square wave	

To Order

MODEL NO.	DESCRIPTION
DP3300-TC	J, K, T, E, 4 to 20 mA, 0 to 10 Vdc, 0 to 5 Vdc pulse
DP3300-R	R, 4 to 20 mA, 0 to 10 Vdc, 0 to 5 Vdc pulse
DP3300-S	S, 4 to 20 mA, 0 to 10 Vdc, 0 to 5 Vdc pulse
DP3300-B	B, 4 to 20 mA, 0 to 10 Vdc, 0 to 5 Vdc pulse
DP3300-MV	100 mV, 4 to 20 mA, 0 to 10 Vdc, 0 to 5 Vdc pulse
DP3300-TH	Thermistor (400 Series) and 4 to 20 mA, 0 to 10 Vdc, 0 to 5 Vdc pulse
DP3300-RTD	100 Ω platinum RTD and 4 to 20 mA, 0 to 10 Vdc, 0 to 5 Vdc pulse

Ordering Example: DP3300-TC-1-3, J, K, T or E thermocouple, 4 to 20 mA input channel 1,
0 to 10 Vdc pulse input channel 2, 220 Vac power and six 1 A relays.

OCW-1, OMEGACARESM extends standard 2-year warranty to a total of 3 years for
additional cost.

POWER, OUTPUT, AND COMMUNICATIONS OPTIONS

ORDERING SUFFIX	DESCRIPTION
-1	220 Vac power
-2	15 Vdc power
-3	Six 1 A relay outputs
-4	Six open-collector outputs