

# 1/8 DIN RATEMETERS, TOTALIZERS, AND BATCH CONTROLLERS

## For Voltage and Current Inputs

DPF60 Series  
Starts at



- ✓ Front-Panel Programming and Scaling
- ✓ Rate and Total in One Unit
- ✓ Remote or Front-Panel Reset
- ✓ Relays Latch or Auto-Recycle
- ✓ Zero and Span Adjustable
- ✓ Rate Alarm Acts as Window Alarm with Hysteresis Around Setpoint
- ✓ Analog Output Optional



DPF66 1/8 DIN, shown actual size.

The DPF60 is a combination microprocessor-based digital rate indicator and integrating totalizer. It accepts inputs of 4 to 20 mA, 0 to 20 mA, 0 to 5 V, or 1 to 5 V and can be scaled for engineering units directly from the NEMA 4X (IP66) rated front panel without tweaking internal potentiometers. The dual standard 5 A (@ 250 Vac) relays can be assigned to the ratemeter, or to the totalizer, or one relay to each for batch control and rate alarm.

The display features a floating decimal point that moves left or right depending on how many "significant figures" the user has selected. In the totalizer mode, 6-digits can be displayed. The unit is fully scalable from 0 to 59,999, which indicates the flow rate represented at 20 mA. A peak and valley feature allows the user to call up the recent high and low readings.

A square-root extracting input is optional on all units for use with differential pressure flowmeters, such as orifice plates and pitot tubes.

With the DPF66, the user can toggle between rate of flow and total flow (6-digits) from the front panel. The rate display is selectable for units per second, minute, or hour, and the totalizer integrates in the same engineering units. The DPF65 displays just total flow, while the DPF64 only displays rate of flow.

### SPECIFICATIONS

**Accuracy:** ±0.15% FS for rate and total  
**Temperature Range:**

**Operating:** 5 to 54°C (41 to 129°F)  
**Storage:** -40 to 93°C (-40 to 199°F)

**Relay Output:** 2 SPDT relays, 5 A @ 250 Vac; relays latch or auto-recycle after 0.1 to 99.9 s

**Power:** 94 to 126 Vac, 50/60 Hz (or 12 to 24 Vdc) standard; 187 to 253 Vac or 12 to 24 Vdc optional

**Display:** 15 x 8 mm (0.6 x 0.32") LED—6-digits total, 5-digits rate

**Standby:** Non-volatile RAM retains scale settings, presets, output status and total flow up to 1 year without power

**Regulated Power Output:** ±5%  
24 Vdc @ 50 mA


**Panel Cutout:** 45 H x 92 mm W (1.772 x 3.622"); DIN standard; 112 mm (4.4") depth



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.

**AVAILABLE FOR FAST DELIVERY!**

### To Order (Specify Model Number)

Model No.	Description
DPF64	Ratemeter with 2 separate 5 A SPDT alarms
DPF65	Batch controller with prewarn and preset 5 A SPDT relays
DPF66	Ratemeter and batch controller with 2 separate 5 A SPDT relays for rate alarm or batching
DPP-5	1/8 DIN panel punch
OP-9	Reference Book: Flow Measure Engineering 

### Options

Ordering Suffix	Description
-A	Analog output, 4 to 20 mA proportional to rate
-SQRT	Square root extraction, for differential pressure flowmeters
-RS232	RS232 communications
-RS422	RS422 communications

Comes complete with operator's manual.

**Ordering Examples:** DPF64-RS232, ratemeter/ batch controller with RS232 output, OCW-3, OMEGACARE<sup>SM</sup> extends standard 2-year warranty to a total of

5 years

DPF64-SQRT, digital ratemeter with square root extraction option



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

### • 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