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Models Available

FPM965DCA DIN96x48 DC Ammeter

FPM965DCV DIN96x48 DC Voltmeter

Product Features

- 4½ digit red LED display
- DIN 96x48mm size
- User adjustable scale and decimal point
- 4-20mA process monitor available
- Easy to wire screw type terminals

For dimensions see page 7

4½ Digit DC Ammeters & Voltmeters

DC digital ammeters and voltmeters are available in the DIN 96x48mm size, featuring a 41/2 digit red LED display. The meters are panel mounting and offer a wide choice of input and display options making them suitable for a large range of industrial applications.

All DC digital panel meters can be powered by a large selection of self contained AC or DC auxiliary power supplies, which all offer isolation between the measured input signal and auxiliary supply voltage.

All DC digital panel meters are delivered fully calibrated, however adjustments to zero and span points can be made (see calibration data sheets). Optional terminal protection covers are also available.

For digital measurement of DC current, DC voltage and process signals

Specification

Accuracy:

- 0.1% ± 1digit

Input Current, In:

- 0-100μA to 0-10A direct connected
- > 10A use shunt and mV voltmeter
- 4-20mA process signal

Input Voltage, Un:

- 0-20mV to 0-800V direct connected
- 0-5V, 0-10V, 1-5V, 2-10V process signal

- 2 x In or 1.2 x Un continuous
- 10 x In or 2 x Un for 5 seconds

Ammeter Voltage Drop:

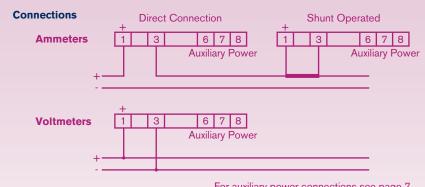
20mV (direct connected)

Impedance:

- Voltmeter 10kohm/Volt
- 4-20mA: 1ohm

Weight:

- 380g



For auxiliary power connections see page 7

Ordering information

| Code | DIN Size & Meter Type | Input & Scaling Auxiliary |
|------------|------------------------|------------------------------------|
| FPM965DCA | 96 x 48mm DC Ammeter | |
| FPM965DCV | 96 x 48mm DC Voltmeter | |
| Specify | - | 0-100μA to 0-10A direct – |
| Specify | - >10A | use shunt & 50, 60, 75mV Voltmeter |
| Specify | - | 4-20mA (scaled as required) - |
| Specify | - | 0-20mV to 0-800V - |
| 110/230Vac | - | 110/230Vac Dual Auxiliar |
| Specify | - | 12Vac, 24Vac, 48Vac, 415Va |
| 10-60Vdc | - | 10-60Vdc |
| Example | FPM965DCV | 0-10Vdc / 0-100.0% 10-60Vdc |

General Specification

Environmental

Operating Temperature: 0°C to 60°C (Calibration temperature 23°C)

Storage Temperature: -10° C to 70° C Temperature Coefficient: <100ppm/ $^{\circ}$ C

Relative Humidity: 0 - 85% non-condensing

Warm Up Time: 1 minute

Display

Digit & Display: 4½ digit (19999) red LED

Digit Height: 14.2mm high
Decimal Point: Internally selectable

Sampling Time: 1 second Over Input Indication: '1'

Polarity: Automatic with (-) indicating negative inputs

Measuring Mode: Dual slope Input Mode: Floating

Noise Elimination Ratio: CMRR over 86dB 50/60Hz

Enclosure

Enclosure: Flame retardant black ABS plastic case

Enclosure Code: Case IP54 (IP65 with gasket optional) to IEC529 Insulation Test: 2kV rms 50Hz 1min input/auxiliary (to IEC 414)

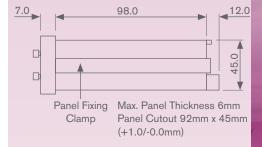
4kV rms 50Hz 1min terminals/case

Markings: CE marked

Specification subject to change without notice.

Dimensions

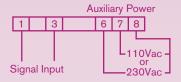




Auxiliary Power Connections

FPM965 Standard Dual AC Auxiliary Supply

110/230Vac ±20% (Burden < 3VA)





FPM965 DC Auxiliary Supply 10-60Vdc (Burden < 2W)

