

### Features :

- Front bezel size 48 x 24 mm
- Low power LED display
- Standard measuring ranges, Inc. 4 ... 20 mA
- 'Snap-in' panel mounting

Compact digital display units in a 48 mm x 24 mm DIN standard snap-in housing. The units are suitable for connecting standard current and voltage signals, including 4 mA ... 20 mA.

The low power consumption and small overall size of these DPMs suits high-density panel applications.

### Applications

The digital panel meter *RISH DPM 24 x 48 D/F* has been designed for industrial applications, which frequently require precise, on-site adjustment of the display range.

It can be used in industrial automation and for laboratory uses.

It provides cost-effective solution for virtually all switchboard instruments.

### Description

The *RISH DPM 24 x 48 F* is a digital panel meter for connection of measurement for voltage (0 ... 0.2 V, 0 ... 2 V or 0 ... 20 V) with 3 ranges.

The *RISH DPM 24 x 48 D* is a digital panel meter for connection of measurement for voltage (10 V) and current (1mA, 20 mA or 4 ... 20 mA) with 4 ranges.

The setting of measuring range and display range is made by positioning DIP switches. The chosen input range is user adjustable from 10 % to 100 % of the full scale value by potentiometer on the rear of the meter.



### Applicable Regulations and Standards

|                           |  |
|---------------------------|--|
| Protection class front    | IP 20 to IEC EN 60 529<br>IP 54 (IP 54 on request) |
| Climatic class            | Class 2 VDE/DIN 3540                               |
| Safety class              | II to IEC 348 / VDE 0411                           |
| Device safety             | to IEC EN 61 010                                   |
| EMC immunity              | DIN EN 61 000-4-1 to 4                             |
| EMC radiated interference | DIN EN 50 081 class B                              |

### Specifications

#### Display

Display range  
Decimal point position  
Negative display indication  
Digit height  
Overload indication  
Setting time

1999  
programmable, settable by DIP switch  
"-."

8 mm / 7-segment digits  
Last 3 digits blank  
< 1s (0...99%)

#### Version D Version F

0 ... 10 V    0 ... 0.2 V  
                  0 ... 2 V  
                  0 ... 20 V

#### Measuring ranges

Direct voltage  
(Input current < 100 µA)

Direct current  
(Voltage drop < 200 mV)

Measuring accuracy  
Temperature coefficient  
Zero point drift  
Interference voltage suppression  
Range adjustment span

0 ... 1 mA  
0 ... 20 mA  
4 ... 20 mA  
< 0.2 % + 1 digit  
100 ppm/°C, plus  
200 ppm/°C  
> 40 dB  
from 10% to 100% of range  
21 ... 30 V DC, 50 mA approx.  
5 V DC ± 5%, 150 mA approx.

#### Power supply

24 V DC  
Optional

#### Ambient conditions

Operating temperature  
Storage temperature

0 ... 50 °C  
-40 ... 80 °C

#### Dimensions and Weights

Bezel size  
Panel cut-out  
Overall depth  
Weight

48 mm x 24 mm DIN 43 718  
45 +0.6 mm x 22.2 +0.3 mm  
69 mm  
< 50 g.

#### Sundry

Connections

plug-in screw terminal block

