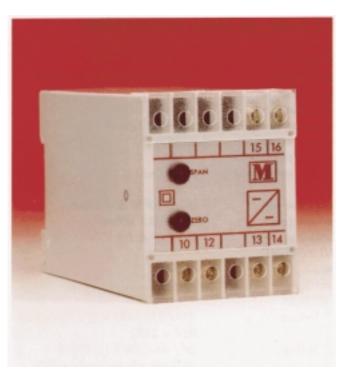
DC CURRENT OR VOLTAGE 4kV OR 1.5kV ISOLATION



SELECTION GUIDE

M100-DA1 DC current input 4kV isolation M100-DV1 DC voltage 20 mV...11.9V input 4kV isolation M100-DV2 DC voltage 12 V....600 V input 4kV isolation

M100-DA11 DC current input 1.5kV isolation

M100-DV11 DC voltage 20mV...11.9V input 1.5kV isolation

M100-DV2I DC voltage 12 V...600V input 1.5kV isolation

TECHNICAL INFORMATION

INPUT Rated value In

Voltage drop Rated value Un

Impedance

Rated value Un Impedance

Working range

Overload continuous Overload continuous

OUTPUT Rated value mA Load resistance Rated value volts

ADJUSTMENT Zero Span AUXILIARY A.C. Voltage

D.C. Voltage

WEIGHT & CASE SIZE INSULATION M100-DA1/DV1/DV2

M100-DA1I/DV1I/DV2I

 $\pm 0-1mA...10A \ M100-DA1 / DA1I$

20mV

 $\pm 20mV.....11.9V~M100-DV1~/~DV11$

100 kOhm / volt

 $\pm 12 V......600 V M100-DV2 / DV2I$

10 kOhm / volt ± 125% In

4 x In M100-DA1 (upto 20A max) 1.5 x Un M100-DV1 / DV2

0-1/5/10/20 & 4-20mA 12/2.4/1.2/0.6 kOhm 0-5 / 10 & 1-5 V

± 2%

± 10%

115 / 230 / 400 V (± 25% / 45-65

Hz/<2VA)

24 / 48 / 110 V (± 20% / galvanically isolated / <3W) Approx. 0.4 kg. 55mm case

4kV As shown in general specification see page 3.

Test voltage 1.5kV RMS 50Hz 1 min between input / case / output, rest of specification as shown in general

specification see page 3

TYPICAL APPLICATIONS

These isolators isolate the DC input signal from the DC Output signal, which is directly proportional to the input signal. There are two levels of isolation offered, the M100-DA1/DV1/DV2 have 4kV isolation and the M100-DA1I / DV1I / DV2I have 1.5kV isolation. A wide range of both D.C. Current and voltage inputs are offered.

Typically these isolators can be used to prevent earth loops, which occur when a measuring source, that is earthed, is connected to a computer or data logger that is also earthed. Another common use is to provide isolation on the inputs to a PLC.

All of the above isolators have either A.C. or D.C. Auxiliaries which means they have an advantage over loop powered units, in that if for any reason the output lead should become disconnected, the input will not be saturated.

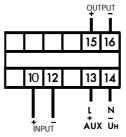
ORDERING INFORMATION

Product code Input In Output Aux Freq. Options M100-DA11 4-20mA 230V 50Hz 1mA

OPTIONS

- 1. Non standard inputs / outputs only as far as technically acceptable.
- 2. A.C. Auxiliary in range 57.7 to 450 volts
- 3. Calibration at temperature other than 23°C

CONNECTION DIAGRAM



M100-DA1/DV1/DV2 M100-DA1I/DV1I/DV2I