

SPECIFICATIONS

M-11

INPUTS:

DC Current 16 channels of two or four wire transmitters 4 to 20mA

Input Impedance Addition to loop resistance: 470 ohms maximum

Transmitter Power Supply V_{SUPPLY} – 3 Volts DC

Transmitter Current Limited to 40mA maximum

Scan Rate

User selectable
Channels/sec
250
500
1000

OUTPUT:

Output Multiplexed current loop

DM-11

INPUT:

Input Multiplexed current loop

or short circuit).

OUTPUTS:

DC Current 16 channels of 4 to 20mA continuous current loop

Alarm 1 x Volt Free Contact Contact Rating: 1A at 230 Volt AC maximum

SUPPLY: M-11

Power Supply Voltage 15 to 40 Volts DC

Current Consumption 20mA maximum not including transmitter currents

16 Channel Current Multiplexer/ **De-Multiplexer System MDM-11**

Function: The MDM-11 is a current multiplexer/de-multiplexer system that

transfers 16 channels of data between two points via a single pair of wires. The front end of the system (M-11) accepts up to 16 process standard 4 to

20mA inputs, multiplexes these at a user selectable scan rate of up to 1000

channels per second and transmits them up to a distance of 2Km maximum. At the receiving end (DM-11) the analogue channels are reproduced in the same order and magnitude as the inputs. The DM-11 unit also has an alarm (flashing LED and volt free contact output) which is operated whenever there is a communications failure of any description (multiplexer failure, cable break

> Fuses 5 x 20mm guick blow Main Fuse: 630mA Channel Fuse: 63mA

Pilot Lights Yellow LED shows Power ON Red LED per active channel

DM-11

Power Supply Voltage 24 Volts DC ± 10%

Current Consumption 500mA maximum (includes the outputs)

Fuses

5 x 20mm quick blow 630mA Main Fuse: Multiplexed Input Fuse: 63mA

Pilot Lights

Yellow LED shows Power ON Red LED per active channel Red LED for ALARM indication **GENERAL:**

Accuracy $\pm 0.1\%$ of span typical, ±0.25% maximum

Communication Cable 2 wire cable

N.B. Transmitters connected to MDM-11 have to comply with the total loop resistance of the M-11 (470 ohms) and the two way lead resistance

Operating Temperature Range $0 to + 70^{\circ}C$

Storage Temperature Range -25 to +85°C

Operating/Storage Humidity Range

5 to 95% RH non-condensing Housing

DIN Rail mounting plastic, polycarbonate

Protection Level

M-11

DM-11

Housing: IP50 DIN40050 IP20 DIN40050 Terminals:

Weiahts 800 gms 750 gms

MECHANICAL DETAILS

Distance

2000 Mtrs

1000 Mtrs

500 Mtrs

TERMINATION DETAILS



ORDERING DETAILS

Give identification code, i.e. MDM-11 (a) If Lee-Dickens to configure:

(b) Specify scan rate required, i.e. 500 channels per second



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