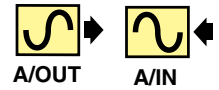


SIGNAL CONDITIONERS

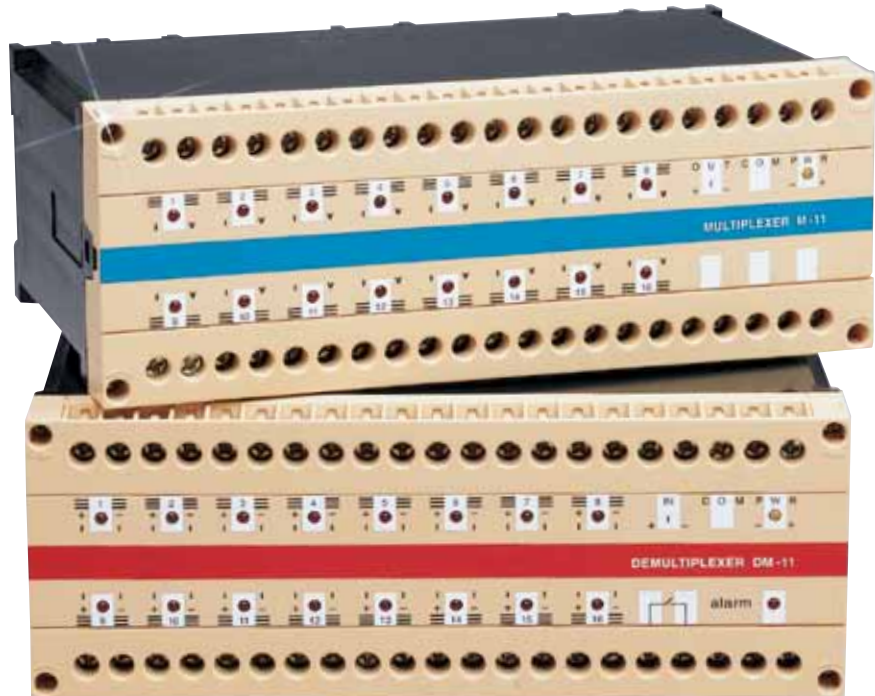
Analog Multiplexer/Demultiplexer System



DRA-MDM-11



- ✔ Transfer up to Sixteen 4 to 20 mA Process Current Loop Signals Accurately Via a Single Pair of Wires
- ✔ Saves Cable and Installation Costs
- ✔ ± 0.1% Accuracy
- ✔ Failure Alarm
- ✔ Solid-State Technology



The DRA-MDM-11 is a mux/demux system which transfers analog information accurately via a single pair of wires. The multiplexer unit (DRA-M-11) accepts up to sixteen 4 to 20 mA process current inputs. The multiplexed inputs are transferred to the demultiplexer unit (DRA-DM-11) at a scan rate of up to 1000 channels/sec up to a distance of 2 kilometers (1.2 miles).

At the demultiplexer the current outputs are reproduced in the same order and magnitude as the inputs. The demultiplexer is provided with an alarm (flashing LED and dry contact output) which is operated whenever there is any interruption in communication due to mux failure, cable discontinuity or short-circuit. Use of the DRA-MDM-11 mux/demux system enables a considerable reduction in cabling costs for a new installation or considerable expansion of analog data transfer capability in an existing installation.

Specifications DRA-MDM-11 MUX/DEMUX SYSTEM

Accuracy: ±0.1% of span typical; ±0.25% of span max
Communications Cable: 2 wire
Operating Ambient: 0 to 70°C (32 to 158°F) 5 to 95% RH, noncondensing
Storage Temperature: -25 to 85°C (-13 to 185°F)

MECHANICAL (TYPICAL FOR DRA-M-11 MULTIPLEXER & DRA-DM-11 DEMULTIPLEXER)

Enclosure: Polycarbonate
Mounting: Standard 35 mm DIN rail or wall mount
Weight: 0.7 kg (1.5 lb)
Dimensions: 73 x 200 x 121 mm (2.88 x 7.88 x 4.76")
DRA-M-11 MULTIPLEXER
Inputs: Sixteen, 4 to 20 mA process current
Addition to Loop Resistance: 360 Ω
V - Transmitter Supply: $V_{supply} - 1$ Vdc
Output: multiplexed current loop
Scan Rate: 250, 500, 1000 channels/sec (selectable) for distance of 2000, 1000 and 500 meters respectively
Supply Voltage: 24 Vdc ±10% regulated
Indicators: 16 red LEDs for current inputs, one yellow power on LED
Current Consumption: 20 mA max

DRA-DM-11 DEMULTIPLEXER

Input: multiplexed current loop
Analog Outputs: Sixteen, 4 to 20 mA continuous current loops
Alarm Output: Dry contact (closed on alarm), rated 1A @ 230 Vac
Scan Rate: 250, 500, 1000 channels/sec (selectable) for distance of 2000, 1000 and 500 meters respectively
Indicators: 16 red LEDs for output currents, one yellow power on LED, one red alarm LED
Current Consumption: 500 mA max (including output currents)
Supply Voltage: 24 Vdc ±10% regulated



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

To Order

Model No.	Description
DRA-MDM-11	Analog multiplexer/demultiplexer system
DRN-PS-1000	Power supply, 95-240 Vac input, 24 Vdc @ 1A output

Comes with complete operator's manual. Includes both DRA-M-11 multiplexer and DRA-DM-11 demultiplexer.

Ordering Example: DRA-MDM-11 multiplexer/demultiplexer system with two DRN-PS-1000 power supplies.