

# MU-DMS

## overview



- ◆ isolated strain-gauge to analogue signal transducer
- ◆ supply voltage 24V=
- ◆ high linearity, long term stability
- ◆ high temperature stability
- ◆ selectable output signal
- ◆ adjustment of user specified signals
- ◆ 23mm DIN rail mount housing

| Input Range (SW2) |    |    |    |    |    |
|-------------------|----|----|----|----|----|
| Range             | 1  | 2  | 3  | 4  | 5  |
| +/-10mV           | ON |    |    |    |    |
| +/-20mV           |    | ON |    |    |    |
| +/-30mV           |    |    | ON |    |    |
| +/-50mV           |    |    |    | ON |    |
| +/-100mV          |    |    |    |    | ON |

Table 1: switch positions of input

| Output Range (SW1) |    |    |    |    |   |   |    |    |
|--------------------|----|----|----|----|---|---|----|----|
| Range              | 1  | 2  | 3  | 4  | 5 | 6 | 7  | 8  |
| +/- 5V             | ON |    | ON |    |   |   |    | ON |
| +/- 10V            | ON |    | ON |    |   |   |    |    |
| 0-10V              | ON |    | ON |    |   |   | ON |    |
| 0-20mA             |    | ON |    | ON |   |   | ON |    |

Table 2: switch positions of output

### Configuration

Figure 1 shows the terminal wiring of MU-DMS. Positive power terminals 9 and 7 are internally connected, as are negative terminals 12 and 10. MU-DMS uses single 24V=.

Tables 1 and 2 above show the switch positions to configure input and output range. The I/O configuration switches are located inside the module. To reach the switches, you need to remove the DIN-rail bracket by sliding it down.

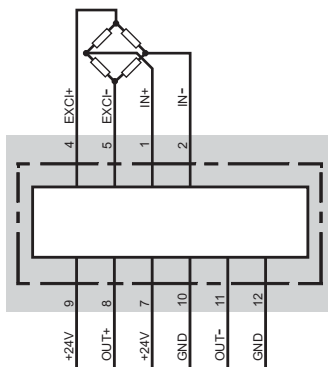


Figure 1. Terminal wiring of MU-DMS

## specification

|                                |  |
|--------------------------------|--|
| <b>supply voltage</b>          | 24V= ± 10%   |
| <b>power consumption</b>       | 1,85 Watt at voltage output<br>2,15 Watt at current output         |
| <b>input</b>                   | +/-10mV, +/-20mV, +/-30mV,<br>+/-50mV, +/-100mV<br>max. 60mA       |
| <b>output</b>                  | Bipolar +/-5V, +/-10V<br>Unipolar 0-10V<br>0-20mA 0-500Ohm (load.) |
| <b>accuracy</b>                | +/- 0,1% FSR (typ.)  |
| <b>temperature drift</b>       | 150ppm typ   |
| <b>screw tightening torque</b> | 0,5Nm  |
| <b>operating conditions</b>    | -10°C to +70°C non condensing                                      |

## ordering information

| part no | supply  | output                       | relay type | CS | housing types |
|---------|---------|------------------------------|------------|----|---------------|
| MU-DMS  | 24V= 2W | +/-5V, +/-10V, 0-10V, 0-20mA | -          | -  | I             |