

## Datasheet MDEKD-940.100

Articlenumber: G9270020

Pressure transducer, 2500/5000/7500/10000Pa, 0-10V, 2-10V, 0-20mA, 4-20mA

The microprocessor-controlled pressure transmitters are suitable for measuring the positive, negative or differential pressure of non-aggressive gases. They are used in heating, ventilation or air conditioning applications as well as in clean room technology or fine draft measurement. The pressure is measured using a piezoresistive pressure sensor. The material of the wetted parts is Ni, PU, Al, Au, Pyrex glass, silicone, Kovar, Duraplast, Ultem Plastic. The time constant can be switched between approx. 10 ms, 2 s or 4 s. With this device, the relative measuring ranges can be selected between  $\pm 10000$  Pa,  $\pm 7500$  Pa,  $\pm 5000$  Pa and  $\pm 2500$  Pa.



|                                           |                                |
|-------------------------------------------|--------------------------------|
| Ambient temperature                       | 0 ... 60 °C                    |
| Bearing temperature                       | -10 ... 70 °C                  |
| Cable entry                               | M 12 x 1.5                     |
| Colour                                    | Grey                           |
| Connection cross-section                  | 0,5 – 1,5 mm <sup>2</sup>      |
| Dimensions (W x H x D)                    | 86 mm x 76 mm x 40 mm          |
| Electric connection                       | Spring push-lock terminals     |
| Final value, pressure measurement range   | 10000 Pa                       |
| Housing material                          | Plastic                        |
| Initial value, pressure measurement range | 0 Pa                           |
| Max. air humidity (non-condensing)        | 95 % r.H.                      |
| Max. Measuring current                    | Approx. 20 mA                  |
| Max. Pressure                             | 5-fold meas. range limit value |
| Medium                                    | Gas                            |
| Montage/Befestigung                       | Wall mounting                  |

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| Number of outputs   | 1                                                            |
| Operating voltage   | 24 VAC $\pm 8\%$ , 50 Hz / 24 VDC $\pm 20\%$                 |
| Output signal       | Continuous, 0 ... 10 V, 2 ... 10 V, 0 ... 20 mA, 4 ... 20 mA |
| Pressure connection | 6.6 mm                                                       |
| Protection class    | III                                                          |
| Safety and EMC      | In accordance with DIN EN 60730                              |
| Sensor element      | Piezoresistive pressure sensor                               |
| Surface finish      | Matt                                                         |

