



KM3701 | 1-channel differential pressure measuring terminal -100...+100 hPa (-100...+100 mbar)

The KM3701 pressure measuring terminal enables direct measurement of pressure differences between two hose connections. The pressure difference is available in the fieldbus as a 16 bit value and can be measured between any points up to an ambient pressure of 10 bar. The status LEDs indicate proper function or errors such as over-range.

Technical data	KM3701
Technology	differential pressure measurement
Number of inputs	1 (differential pressure)
Measuring error	3 % (relative to full scale value)
Measuring range	-100...+100 hPa (-100...+100 mbar)
Max. overload	500 hPa (500 mbar) differential, 5,000 hPa (5 bar) to ambient
Resolution	0.1 hPa (0.1 mbar) per digit
Measuring speed	5 ms typ.
Current consumption power contacts	– (no power contacts)
Current consumpt. K-bus	typ. 15 mA
Bit width in the process image	3 byte input/output
Medium	non-aggressive gases
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/variable
Approvals	CE, UL

Special terminals	
KM3701-0340	differential pressure up to 340 hPa