

Data Sheet for SM ... Series Sensor Module

Types

Designation	Measuring range
SM 500 ...	0 ... 500 Pa
SM 1000 ...	0 ... 1000 Pa
SM 2000 ...	0 ... 2000 Pa
SM 5000 ...	0 ... 5000 Pa
SM 35000 ...	0 ... 35000 Pa

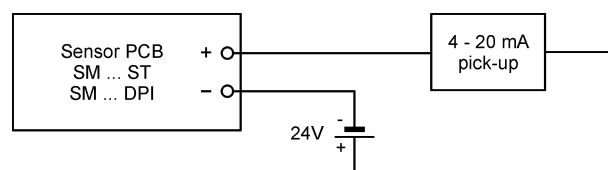
Designation	Output signal
SM ... SP*	0.5 V ... 4.5 V
SM ... ST*	4 mA ... 20 mA
SM ... SP-ST*	0.5 V ... 4.5 V and 4 mA ... 20 mA
SM ... DPI	4 mA ... 20 mA

* SP voltage signal, ST current signal, SP-ST voltage and current signal

Technical specifications

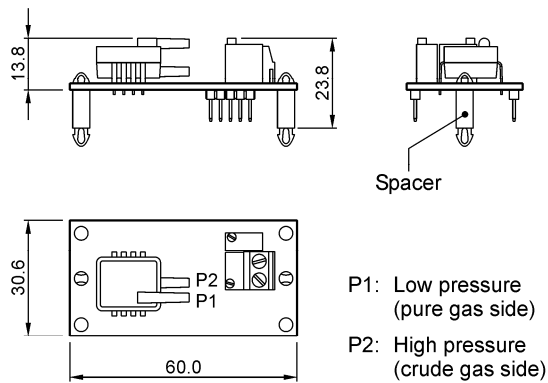
Measurement	Differential pressure Δp
Measurement limits = output signal, current	4 mA ... 20 mA Correspond to the measurement range
Measurement limits = output signal, voltage	0.5 V ... 4.5 V Correspond to the measurement range
Resistance	500 Ohm
Characteristic	linear ascending
Zeropoint drift	1 % of the final value
Temperature compensation	SM ... SP / SM ... ST / SM ... SP-ST 0 °C ... 60 °C SM ... DPI 0 °C ... 50 °C
Permissible ambient temperature range	-20 °C ... +60 °C
Sensor head	Piezo-resistant
Medium	Non-aggressive, dry gases
Weight without mounting support	SM ... SP / SM ... ST / SM ... SP-ST 11 g SM ... DPI except SM 1000 DPI 27 g SM 1000 DPI 19 g

SM ... ST / SM ... DPI wiring diagram

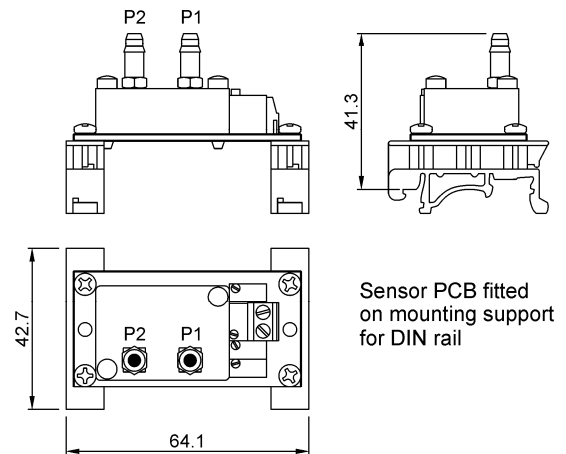


Dimensions

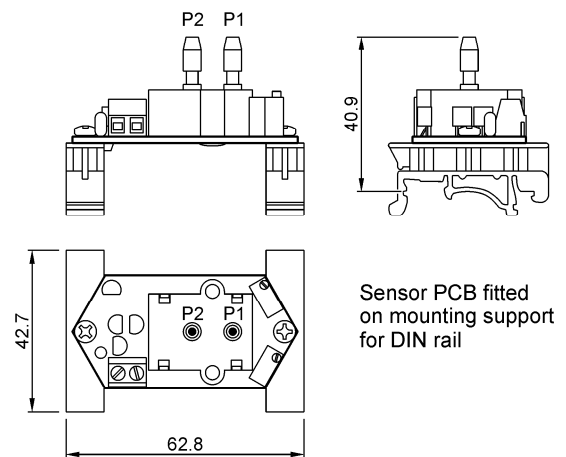
SM ... SP / SM ... ST / SM ... SP-ST



SM ... DPI, except SM 1000 DPI

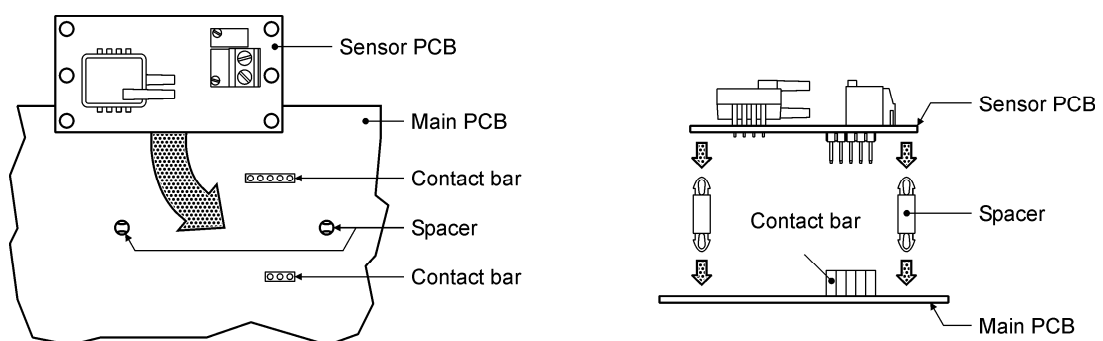


SM 1000 DPI



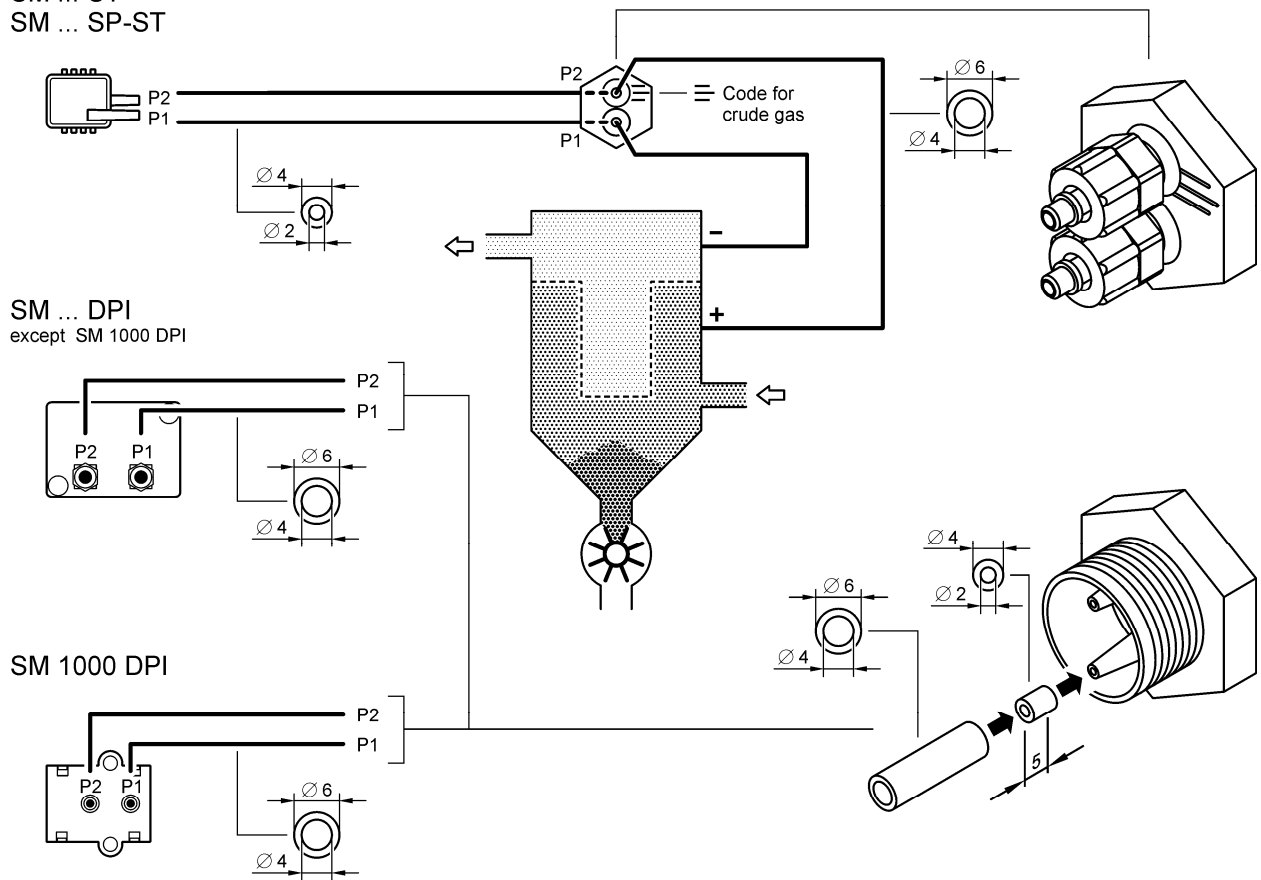
Assembly

The SM ... SP / SM ... ST / SM ... SP-ST sensor module is fitted onto the main PCB using two spacers (10 mm). The electrical connections are established via two contact bars here (see figure).



Connecting differential pressure measurement cables

SM ... SP
SM ... ST
SM ... SP-ST



Disclaimer

The contents of this documentation has been verified for correctness and completeness. Nevertheless, errors can not be excluded so that we cannot guarantee the correctness of this information. Subject to alterations at any time.