

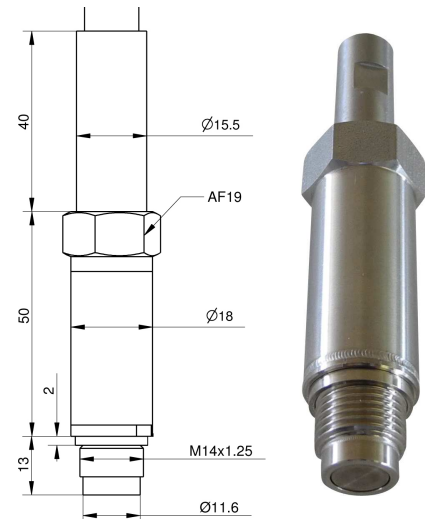
## Front membrane pressure sensor FPS-02

*for pressure control on engines*

Front membrane pressure sensor for continuous measurement of cylinder pressure on two- and four stroke engines. (24h per day / 365 days per year)

### Characteristics

- Sensor designed for diesel-and gas engines
- Digital electronic with event storing
- Very good thermodynamic performance



### Application:

Permanent installation for engine control.

### Technical Data

Measuring range pressure	0...300 bar
Over pressure static	400 bar
Frequency range	10 kHz
Thermal shock 1500 RPM pmi=9bar	< +/- 0,5 bar
Accuracy	≤1% Full scale
Temperature range of SCU	-40 °C ... + 75 °C
Supply voltage	18...32 VDC, on request 5VDC
SCU current consumption	≤50 mA (continuous operation); 250 mA (switch-on peak)
Output signal range	4...20 mA, on request 0,5...4,5 V
Electrical connector	M12 x 1
Thread	M14 x 1,25
Dimension sensor	50 mm , Ø 18 mm
Dimension electronic	139mm x Ø 18 mm
Tightening torque	25 Nm
Weight incl. electronic	300 g

## General specifications

Degree of protection	IP 67 (EN 60529)
CE approval	2004/1008/EG EN 61000-6-2 EN 61000-6-4 EN 61326-1

The robust type FPS-02 sensor for continuous measurement of cylinder pressures on two- and four stroke engines offers outstanding longevity and constant sensitivity.

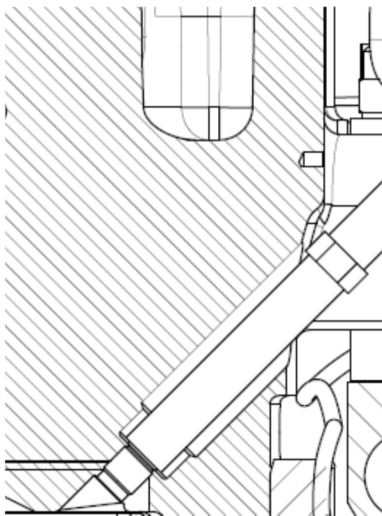
Cylinder pressure measurements can be made with high precision because of its very good thermodynamic characteristics.

## Mounting

The sensor should be installed close to the combustion chamber, the length of the pressure bore between sensor and combustion chamber depends mainly on engine speed.

Generally there are two possibilities for the installation position of cylinder pressure sensors:

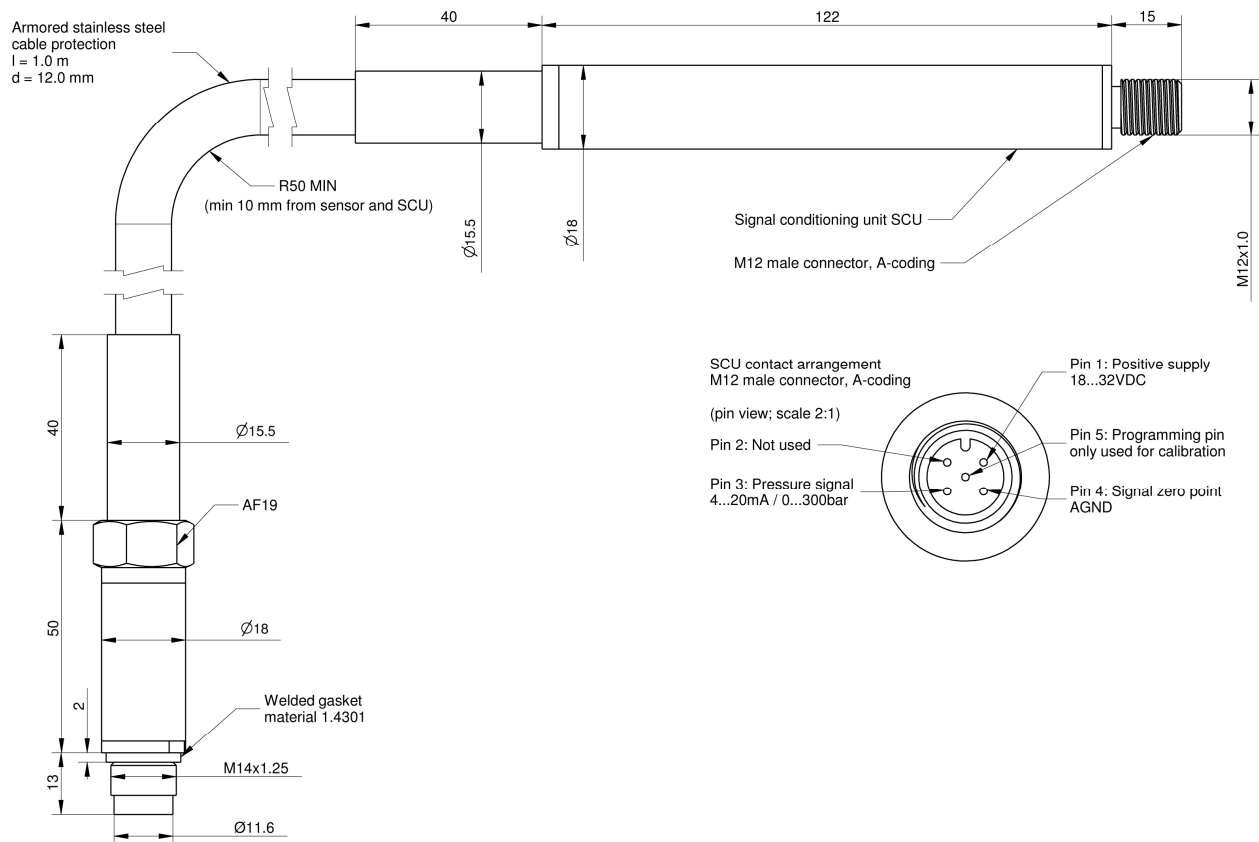
Head mounted or set-back mounted.



Head mounted installation  
near to combustion chamber



The closed face makes the sensor immune to sooting



## Scope of supply

FPS-02  
Protection cover  
Connecting cable 5 m  
Connecting cable 10 m

## Part No.

IW-6224  
IW-6211  
IW-4110  
IW-4111