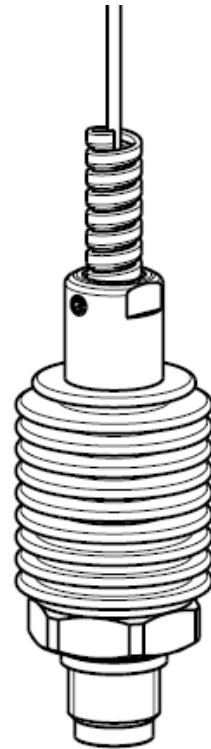


Cylinder Pressure Sensor QO42E

Sensor with optimized service life for continuous cylinder pressure monitoring in Diesel and gas engines. The sensor is designed for installation at the cut off valve and is qualified for precision measurements of the peak pressure as well as IMEP.

The integrated amplifier with voltage or current output is adjusted to a standardized sensitivity so that the use of different sensors can be done without additional calibration efforts.

The special membrane is proven over years in HFO firing engines. The membrane, made of a nickel cobalt chromium alloy and coated with a corrosion resistant coating, can withstand the attack of very corrosive gases arising during combustion of HFO with high sulfur rates.



CUSTOMER BENEFITS

- compact, durable design
- high service life
- integrated charge amplifier with current or voltage output
- high quality charge amplifier with state of the art drift compensation circuit
- standardized output

SPECIFICATION

QO42E

Measuring range	250 bar
Overload range	300 bar
Sensitivity / Output	13/25/50 mV/mV/ μ A /bar
Linearity	0.8 % FSO
Thermal sensitivity shift	< 1 % (120 ... 250°C)
Temperature range	-50 ... 250°C
Temperature range electronics	-50 ... 120°C
Supply voltage	10 ... 32 V DC
Threshold for drift compensation	12 bar
Cycle	min 40 ms / max. 2000 ms
Mounting torque	25 Nm
Weight	approx. 160 g
Connector	M12

MOUNTING

The sensor is designed for installation at the cut off valve.

