

Two-stroke combustion sensor TCS-01CA®-PMI

for application on PMI-auto-tuning-system

Two-stroke combustion sensor for continuous measurement of cylinder pressure on two-stroke diesel engines (24h per day / 365 days per year).

Characteristics

- Sensor designed for 2-stroke application
- Digital electronic with event storing
- Very good thermodynamic performance
- Marine classification
- Pin compatible to PMI-system



Application:

Permanent installation on two-stroke marine diesel engines for cylinder balancing and performance evaluation.

Technical data

0250 bar		
400 bar		
10 kHz		
< +/- 0,5 bar		
<_1% Fulli scale		
-40 °C + 75 °C		
1832 VDC		
< 50 mA (continuous operation); 250 mA (switch-on peak)		
420 mA		
419.35 mA or 519 mA		
61,4 µA / bar or 56 µA / bar		
Harting Han ES 10B (male) with housing Harting Han 24B (male)		
M10 x 1		
36.5 mm , Ø 13.5 mm		
15 Nm		
1200 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
Marine qualification	
Bureau Veritas	22266/B1 BV

The robust type TCS-01CA®-PMI sensor for continuous measurement of cylinder pressures on two stroke diesel engines offers outstanding longevity and constant sensitivity.

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

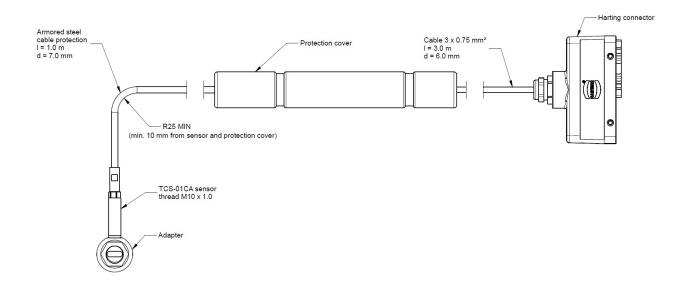
Mounting

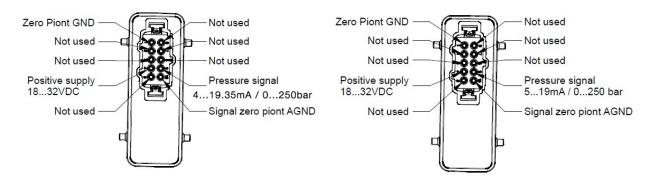
For application on 2- stroke engines the sensor should be installed in a special adapter between cylinder cover and indicator cock.

The indicator valve should be opened regularly to blow out the combustion residuals.









Harting connector for IW-9101

Harting connector for IW-9100

Product No.	Pressure range	Calibratred range	Total cable length	Static overpressure
IW-9100	0 - 250 bar	5-19 mA	4.0 m	400 bar
IW-9101*	0 - 250 bar	4 - 19,35 mA	4.0 m	400 bar

^{*} Adaptor not in scope of supply

Scope of supply Product No.

- TCS-01CA®-PMI sensor IW-9100

incl. 4 m cable, protection cover, Harting connector and adaptor

- TCS-01CA®-PMI sensor IW-9101

incl. 4 m cable, protection cover and Harting connector

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