

Optimized engine operation

Characteristics

- Sensor designed for 2-stroke application
- Digital electronic with event storing
- Very good thermodynamic performance
- Permanent installation for cylinder balancing and performance evaluation
- Marine classification
- Pin compatible to PMI-system



The closed face makes the sensor immune to sooting

Specification

Measuring range pressure	0...250 bar
Over pressure static	400 bar
Output signal	4...20 mA
Electrical connector to PMI-System	Harting Han ES 10B (male) with housing Harting Han 24B (male)
Thread	M10 x 1
Certification	Bureau Veritas, Korean Register, Class NK, DNV, Lloyd's Register, RINA

Specialist for advanced engine control

Our main products

- A wide range of cylinder pressure sensors for diesel-, gas-, dual-fuel- and future fuels engines
- Various types of handheld electronic engine analysers
- Combustion monitoring systems
- Industrial spark plugs

Our service

- Advice and training for optimal use of our products
- Customised solutions for your requirements
- Service and support for our products

Your benefit with IMES as your partner

- High quality products and services that meet the highest standards
- Expert support from our experienced team
- Tailored solutions that meet your specific requirements

Global sales organisation



You are welcome to contact us at any time for further information and support.

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TCS-01CA[®]-PMI

for application on electronically controlled engines

www.imes.de

Two-stroke combustion sensor for application on PMI autotuning systems

In times where emission regulations continue to tighten, optimised engine performance to reduce NOx and CO2 is of paramount importance.

TCS-01CA-PMI is a two-stroke combustion sensor for continuous measurement of cylinder pressure on two-stroke diesel- and dual-fuel engines (24 hours per day / 365 days per year).

It is specifically designed for the application on electronically controlled engines and suitable as replacement for the standard pressure sensor of PMI-auto-tuning-systems. The connector is pin compatible to PMI systems and the user-friendly plug-and-play-system enables an easy installation.

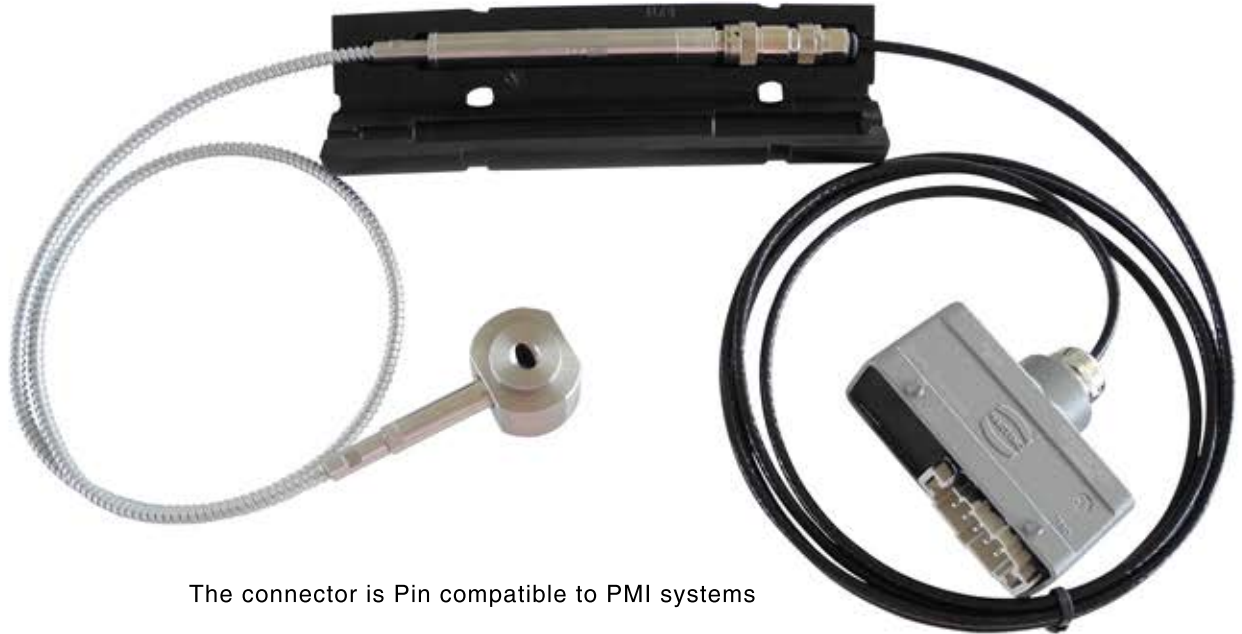
In the field:



TCS-01CA-PMI sensor installed on a MAN ME two-stroke diesel engine

Robust and durable

TCS-01CA-PMI is a very robust sensor and the closed face of the sensor reduces the risk of sooting during long-time operation. Due to this and its very good thermodynamic characteristics, cylinder pressure measurements can be made with high precision (< 1% Full scale). Furthermore, the sensor offers an **outstanding longevity** and **constant sensitivity** without the need of recalibration and it has been designed for continuous operation of 3 years.



The connector is Pin compatible to PMI systems

Mounting

The sensor is installed in a special designed adaptor between cylinder cover and indicator cock, as this reduces the build-up of combustion deposit at the sensor membrane significantly.

