



PREMET® X with Sensor

The PREMETS® diesel indicators are known to be rugged and reliable. The newly developed PREMETS® X now adds a brand new software, new sensor technology and connectivity to obtain, show, analyse and export the important pressure data of your diesel engine during operations. This device gives you the opportunity to fine tune your engine to a higher efficiency resulting in lower costs.

Compatible with low-, medium- and high-speed engines the PREMETS® X is the perfect system to optimise your fuel injections to reduce fuel consumption but also to avoid repairs and damages as part of a condition monitoring regime. The PREMETS® X, Made in Germany, is using high-quality materials and is equipped with the newest PiezoSMART sensor from Kistler Switzerland. Latest designed engines run with peak pressures up to 300 bar and high exhaust gas temperatures. The new sensor technology ensures high performance and accurate results for the complete range. The storage of calibration data inside the sensor makes it possible to easily exchange sensors without calibration of the device.

The new software allows to do an in depth analysis of your engine ensuring you will be in control of the condition of the engine without being an expert user. If your job includes responsibility for multiple vessels the Fleet Management Software will make your life much easier and for worldwide access CMT is offering a Cloud solution as well. The integrated WiFi connection increases the ease of data transfer considerably.

A WiFi network with an internet connection, which can easily be established with a standard mobile phone in the next port will allow an automated upload of the data into the cloud.

The large internal memory of the PREMETS® X allows to save as many engine set ups as you like up to 40 cylinders per engine. The integrated compensation of torsional vibrations enables ultra accurate measurements for 2-stroke engines. 4-stroke engines can be measured with an extra TDC sensor with high accuracy. Using an acoustic emission sensor the fuel injection can be monitored with no need to tamper with the high pressure fuel lines during installation. Ignition delay and other critical timings during combustion will become visible.

CM Technologies GmbH offers a measurement evaluation service to help you getting the most out of your CMT instrument. Also individual training courses can be arranged either at CMT, at your office or even on board.

- WiFi connection for easy data transfer
- Rugged design for onboard use
- Highest available accuracy
- DNV GL Eco Insight ready
- Cloud based Fleet Management

### Ordering Information

DPA-CT-12020

#### PREMETS® X Device

- KISTLER Piezo-SMART-Sensor
- New Premium Analysis Software (PREMETS Viewer)

DPA-CT-12022

#### PREMETS® TDC Pick up for 4-stroke engines

DPA-CT-12023

#### PREMETS® pair of pick ups for 2-stroke engines

DPA-CT-12029

#### Optical TDC Pick-up for 4-stroke engines

DPA-CT-12027

#### 15m Premet pick up connection cable

DPA-CT-12024

#### PREMETS® Fleet Management Software

DPA-CT-12025

#### PREMETS® Fleet Management Cloud Subscription

DPA-CT-12028

#### DPA evaluation service

### Your benefits:

- Revolutionary new sensor technology
- New analysis software



### Specification

Ignition pressure range	0-350 bar
Sensor	Kistler 6019A 11S
Speed range	20-3000 rpm
Max. number of engines	Unlimited
Max. number of cylinders (per engine)	40
Max. temperature	400°C
Compensation pressure	✓
Compensation of torsional vibration	✓
USB connection	✓
WiFi connection	✓
Display	Colour, size 160 x 90 mm, resolution 800 x 480
Accuracy	0.17% degree crank angle