

Sensor-Test-Kit

for sensor offset- and span evaluation

- Sensor offset- and span check by pressure pump
- Data interface from sensor to check box
- Read out of stored max. pressure, max temperature and engine operating hours



Application

- All types of IMES sensors

Technical Data

Hand pump incl. digital manometer	
Accuracy 25°C	0...700 bar
Check-box	
A/D resolution	21 Bit
Interface to PC	USB
Interface sensor	Serial interface
Dimension	90 x 60 x 30 mm
Weight	130 g
Visualisation software for WIN 7 and WIN 10	
Calculation of sensor offset and - span	
Read out sensor operating data by serial interface: Pmax, Tmax and running hours on engine	

Sensor-test-kit_en_01_2020

Sensor Check Report



Company, ship name or power plant: IMES, Cogeneration plant
Engine: MAN
Engine number: 123456789
Operator: Stefan Neumann
Date: 08.11.2018

Sensor Type: CPS-01CA
Serial Number: 5952-17-1273-0

Evaluation (Temperature: 23°C)

Offset	Current:	4.1508mA
	Pressure:	2.8bar
	Deviation:	3.77% (referenced to 4.0000mA)
	Result:	within specification
Span	Current (measured):	8.0091mA
	Pressure (entered):	150.0bar
	Current (norm. to 300.0bar):	16.0182mA
	Pressure (normalized):	300.3bar
	Deviation:	0.11% (referenced to 16.0000mA)
Result:	within specification	

Total result: **approved**

Read out Sensor Operation Data

Operation time (powered):	1h
Operation time (engine running):	1h
Maximum pressure:	183.4bar
Maximum temperature:	82.6°C

Pressure Pump

Model: SIKA Ref-E2
Serial number: 1225TG0
Calibration date: 16.10.2018

Checkbox

H/W Serial number: 366935883436
Calibration date: 17.09.2018

Signature:

IMES-Extra-Check-Worksheet



In conjunction with the hydraulic pressure pump including manometer the check-box is suitable for sensor offset and –span evaluation at ambient temperature.

For reading out the stored sensor operation data the check-box is connected to the sensor SCU by serial interface and via USB to a PC.

The check-box visualisation software is reading out running hours on engine, maximum pressure and maximum temperature data. All data will be displayed in a sensor evaluation report and the measured data of sensor offset and –span will be compared with sensor specification.

Scope of supply

Sensor-Test-Kit

- Hydraulic pump with reference gauge (700 bar)
- Pressure hose (1m) with Minimes
- Sensor check-box
- USB connecting cable (1m)
- Sensor connecting cable (0,25m) M12—M12 connector
- Sensor connecting cable (0,25m) M12—CA connector
- USB-stick incl. visualisation software and documentation
- Quick-step-manual printed 4 pages
- Transport box (Dimension 45 x 36 x 14 cm), Weight:5 kg

Part no.

IW-4140

Option

Pressure adaptor for sensor thread M10x1

IW-1591

Pressure adapter for sensor thread M14x1,25

IW-1592