PRODUCT INFORMATION

DocHub e-932 *WLAN*   110100022

The DocHub e-932 belongs to the new engine monitoring family called "e-line". The powerful wireless multi-channel data acquisition device is controlled by an ergonomic tablet PC and runs with the new DocSoft e-3 analysis software.
The new simplified and user friendly system integrates the standard engine performance report of MAN/Wärtsilä to optimize the work on board for the crew. The measurements will be automatically transfered to the report and can be sent directly to the engine diagnostic system in cloud called EDSystem (sc.foxcloud.org).

GENERAL INFORMATION

Desired signal sources of 2-stroke and 4-stroke engines can be measured and analyzed online in real-time:

- Cylinder pressures
- Crank shaft movements
- Shaft power
- Scavenge pressure
- Fuel pressures
- Acoustic sensor
  (valve opening / injection timing)
- ISO correction

The DocHub e-932 can be tailored to your needs with up to 32 input channels. Easily, the system can be configured by the DocSoft software to support any type of additional sensors.

DocHub e-932 *WLAN*

RUGGEDIZED TABLET PC

TABLET SPECIFICATIONS

The DocHub e-932 is wirelessly connected to a ruggedized toughpad FZ-G1 from Panasonic running under Windows 8.

- Windows 8
- Core i5-3437U
- Ram 4GB
- Touch screen 10,1"
- 802.11 n WiFi dual band
- 1 x USB 2.0 (or USB 3.0)

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DATA ACQUISITION INTERFACE

- Maximum number of acquired signals 32
  (32 single ended / 16 differential)
- Default ADC resolution 16 bits
- 8 Slots chassis for different signal interfaces
- Standard Interfaces:
  - Cable tree module for 24 signals
  - Analogue input modules for 8 signals
  - Crank shaft movement
  - Pick-up for TDC

DocHub e-932 Specifications

- Slim housing 320x200x45mm
- Passive cooling
- Battery powered 6h runtime
- Powered AC 100/240V 50/60Hz
- Communication WLAN
- RJ45 IEEE 802.11
- Weight 2.8Kg

SPECIFICATIONS DAQ:

Input signal	Range
Nominal input ranges	±10 V, ±5 V, ±1 V, ±0.2V
ADC resolution	16 bits
Input bias current	±100 pA
Analog bandwidth	370 kHz
CMRR (DC to 60 Hz)	100 dB
Overvoltage protection	±30 V
Input high voltage (VIH)	Min 2.0 V Max 3.3 V
Operating temperature	– 40 to 70 °C
Input high voltage (VIH)	Min 2.0 V Max 3.3 V
32-bit-Counter/Timer	4
Communication	Wireless (IEEE 802.11)

SCOPE OF DELIVERY

- DocHub e-932 *WLAN*
- Panasonic TOUGHPAD FZ-G1
- Peli safety case
- PC software
- Online software
- Engine performance report
- EDSystem* access for 2 months
  (Engine Diagnostic System)

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