



DocGate e-732 LAN

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The DocGate e-732 is a robust and cost effective multi channel online data acquisition system for permanent engine data acquisition. The system is online controlled by a remote workstation in the control room which runs the online data acquisition and analysis software DocSoft e-2. The DocGate is designed for permanent 24/7 installations in rough and harsh engine room environments. The system can be equipped with a wireless and ergonomic tablet PC to operate flexibly around the engine.

GENERAL INFORMATION

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

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

The DocGate e-732 can be tailored to your needs with up to 32 input channels. Easily the system can be configured with the DocSoft software to support any type of additional sensors.

DocGate e-732 LAN



RUGGEDIZED TABLET PC (Option)



TABLET SPECIFICATIONS

With a wireless LAN router in the ethernet network the DocGate e-732 can send signals to any tablet PC which runs a remote DocSoft online software.

- 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)

Headquarter
INTERNATIONAL
TECHNOLOGY GmbH
Juchstrasse 45
8500 Frauenfeld
Tel: +41 52 722 20 40
doctor@fuchstechnology.com
www.fuchstechnology.com

Logistic & Service Center
INTERNATIONAL
TECHNOLOGY GmbH
Juchstrasse 45
8500 Frauenfeld
Fax: +41 52 722 20 44
service@fuchstechnology.com



INTERNATIONAL TECHNOLOGY GMBH

Professional engine monitoring and diagnostics

PRODUCT INFORMATION

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

DocGate e-732 LAN Specifications

- Slim housing 200x200x80mm
- Passive cooling
- Battery powered 6h runtime
- Powered AC 100/240V 50/60Hz
- Communication WLAN
- LAN IEEE 802.11
- Weight 1.5 kg

SPECIFICATIONS DAQ:

Input signal	Range
Nominal input ranges	$\pm 10\text{ V}$, $\pm 5\text{ V}$, $\pm 1\text{ V}$, $\pm 0.2\text{ V}$
ADC resolution	16 bits
Input bias current	$\pm 100\text{ pA}$
Analog bandwidth	370 kHz
CMRR (DC to 60 Hz)	100 dB
Overvoltage protection	$\pm 30\text{ V}$
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

- **DocGate e-732 LAN**
- PC Software
 - Online software
 - Engine performance report
 - EDSsystem* access for 2 months (Engine Diagnostic System)

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