

HIOTS Emission Monitoring Systems

TOWARDS A STRONG AND RELIABLE EMISSIONS MONITORING SYSTEM!

ÎOTEST

Cloud Data Logger







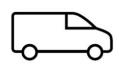


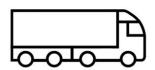
How ioTest Can Help You?

The ioTest is a continuous emission monitoring system which can be used as a tool to monitor engine parameters such as exhaust temperature, backpressure, λ (lambda), O2, NOx, PM, RPM, OBD-II and other parameters according to requirements.

The ioTest collects real-time data from onboard sensors and gives this opportunity to check the measurements from anywhere through the web application. Along with online data visualization and alarm notifications, the ioTest stores sensor data, alarm codes and audit logs for compliance reporting up to 10 years. The ioTest can be used for R&D, regulatory preparation, benchmarking or monitoring components involved in the after-treatment of exhaust gases such as DPF and SCR.

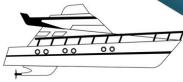














ALL-IN-ONE MONITORING SOLUTION

Helvetia IoT Solutions

ÎOTEST

Cloud Data Logger



On-board diagnostics



Industrial 4G Modem









Alarm LED Indicator



Differential Pressure Sensor



Particulate Matter Sensor



NOx sensor



Wideband lambda sensor



Exhaust Temperature Sensor





WEB APPLICATION MONITORING

Web Access to measurement data and viewing LiveData via the browser

- Live data view and storage
- Measurement data can be downloaded as .CSV files
- Easy acknowledgment of alarms
- Changing logger parameters over the air
- Access to GPS Location
- No local software installation, intuitive user interface



SMART PHONE APP MONITORING

Access anytime any where with Mobile Apps, HIOTS Cloud

- Viewing live data in Live view
- All measurement data are constantly available
- Alarm function for critical values
- Access to GPS Location
- Protection of measurement data by secure login



POST-PROCESS ANALYSIS SOFTWARE

Powerful and flexible post-processing software for the visualization and interpretation of data

- Specialized functionality for Aftertreatment System
- Graphical data visualization
- Data cleansing and preparation: curve operation, statistics
- Export data and report test result
- Multiple-format data export for use in third-party applications

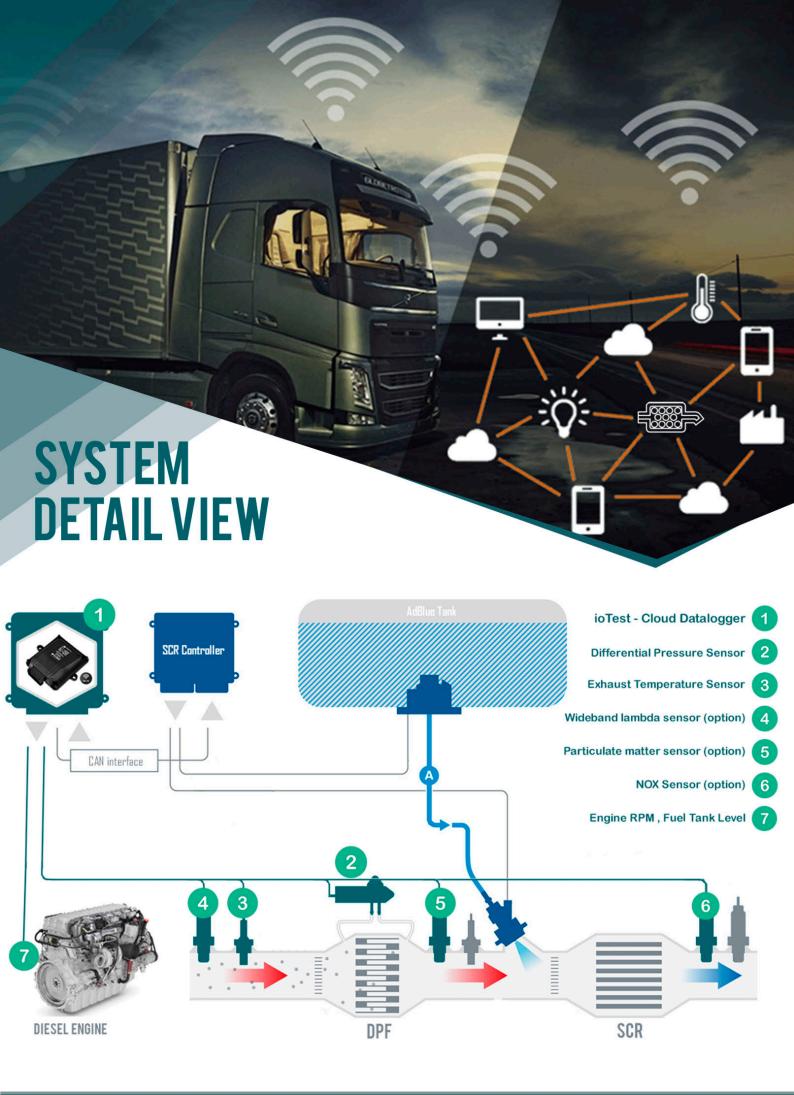


STANDARD SYSTEM

- > ioTest Wi-Fi Cloud DataLogger
- Differential Pressure Sensor
- Exhaust Gas Temperature Sensor
- Cable Harness with WiFi Dongle 4G Modem
- Alarm and LED Indicator
- Engine RPM and Digital /Analog input

OPTIONS

- > Industrial 4G Modem
- >> GPS System
- > OBD-II Scanner Interface
- Wideband lambda sensor
- > NOx sensor
- >> Particulate Matter Sensor (Soot Sensor)







The ioTest data logger is a completely isolated device which collects, stores and transmits data to a cloud database without being dependent on any external sources. The main data logger section is responsible for collecting data coming from sensors and storing them on an internal Memory. Being beneficiary of a Wi-Fi connection to the provided external 4G industrial modem router, data would be transmitted to the data server.





GPS system*

Fuel Level Meter Analog input 2-10 volt

1 x RS485

1 x CAN-bus [CAN Wideband lambda sensor* $\lambda = 0.65$ to air]

> [CAN NOx sensor* Measuring range: 0–3,000 ppm] [CAN Particulate Matter Sensor* (Soot sensor) 1

2xDigital output Alarm Buzzer with LED indicator light On-board diagnostics OBD-II Scanner Interface*

Standard Harness with 3G/4G dongle WIFI cellular modem Industrial WIFI 3G/4G Cellular modem*

GENERAL:

Power supply 10 - 38 VDC Memory capacity 16 GB Storage for up to 10 years Sampling rate Selectable sample rate 1Hz

Wi-Fi protocols 802.11 b/g/n Wi-Fi frequency range 2.4 ~ 2.5 GHz **Processor cores**

Operating Temp -20 ~ 80 °C **Dimensions** $120 \times 108 \times 32 \,\mathrm{mm}$

Electrical protection: Reverse polarity, short circuiting and overvoltage

*option









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