

Technical Specifications

Model: DPMRA02





The Pinssar diesel emission monitoring system is a practical solution which includes the Pinssar DPR fixed monitoring units and a highly configurable dashboard.

The continuous real-time data is sent to client nominated end users which can be viewed on desktop monitors, laptops, tablets or smartphone devices, as well as ventilation simulation software, SCADA and ventilation control and response systems.



Pinssar DPR

With 23 patented innovations, the Pinssar DPR unit is a ruggedised, fixed monitor, which operates continuously to collect samples and send DPM data in real time.

Pinssar Dashboard

The Pinssar Dashboard is an easy to use and configurable HMI (interface). It records and displays data provided from the Pinssar DPR.





Console

Tabulates samples for the current shift and previous shifts, as well as time weighted averages.



Diagnostics

Data is provided from 13 internal sensors to allow remote health checks and diagnostics.



DPR Asset Map

Records the location of each Pinssar DPR.



Dynamic View

A real time visual display of samples taken.



Exportable Data

All data is exportable into xls format to enable reporting and analysis.



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Measurement Technique	Laser-light scattering photometry
Concentration Range	0 to 2,500µg/m3
Self-Cleaning	The optical cell is flushed with filtered air after each sample is taken.
Measurement Frequency	Preset to 5 minute intervals between samples. Range from 2 mins to several hours.
Zero Drift	Negligible; uses a proprietary auto-zero system
Remote Management	Management of Pinssar DPR device can be done remotely via Pinssar DPM Monitoring System Server software, or an alternate client based SCADA or monitoring system.
Size Fraction	≤ 800nm
Particulate Type	Particulate Mass is calibrated to the response of a reference photometer gravimetrically calibrated to diesel particulate matter (< 800nm).
Dimensions	With external filter 660mm(H) x 250 mm(D) x 740mm(W) Without external filter 660mm(H)x 250mm(D)x 675mm(W)
Mass	35.7 kg
Flow Rate	2.2 litres per minute
Operating Humidity Range	0 to 90% relative humidity (non-condensing)
Operating Temperature Range	-10°C to 50°C, 14°F to 122°F
Enclosure Material	Stainless Steel (316 grade)
IP Rating	IP64
Internal Clock	Sync to UTC (require internet access)
Sample Data Characteristics	Timestamp: Year, Month, Day, Hour, Minutes and Seconds Sample Data: Serial number, sample value, Reader status and several fields of diagnostics data. Packet size: 104 bytes
Internal Data Storage	2GB CF Card
Diagnostics	Several fields of diagnostics data are transferred to Pinssar DPM Monitoring System, or to an alternate client based SCADA or monitoring system
Power Option	240 VAC, 120W Other options available on request.
Protection	Input surge voltage (1 sec) 50 VDC Overvoltage, overload, short circuit and thermal protection Input: T3.15A/250VAC fused in line and neutral Isolation – Input to Output 4000 VAC, Input and Output to Ground 1500 VAC
Circuit Breaker	6A manually resettable internal CB combination Residual Current Device
Identification Labelling	Serial number plate on right hand side panel
Data Communication Interface Options	Ethernet: 10/100Base TX (Cat5 RJ45) Wireless: LTE/UMTS (HSPDA/HSPDA+), WiFi (IEEE 802.11b,g,n) Modbus: Modbus TCP Protocol
Compliances	EMC, RF and Safety:ICNIRP GuidelineEN55032:2015 COR 2016 (CISPR 32:2015 Ed 2)447498 D01 General RF Exposure Guidance v06EN301 489-17: V3.1.1 (2017-02)FCC Title 47 CFR, Part 15.247(i), 1.1307(b), and 1.1310EN301 489-17: V3.1.1 (2017-02)RSS-102 Issue 5 and GL-01 Issue 3EN 61000-3-2:2006, A1:2009, A2:2009 (IEC 61000-3-2:2005, A2:2009)ETSI EN 300 328 V2.1.1 (2016)EN 61000-3-3:2013 (IEC 61000-3-3:2013 Ed 3ETSI EN 301 893 V2.1.1 (2017)FCC Title 47 CFR, Part 15 Subpart B and ICES-003FCC Title 47 CFR, Part 15.207, Part 15.247ANSI C63.2, ANSI C63.4EN 60950-1:2006, A1, A2, A11, A12EN62311:2008AS/NZS 60950-1:2015



The only practical solution for diesel particulate monitoring.

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