PENTAIR

GOYEN
NETWORK
SYSTEMS

PENTAIR CLEAN AIR SYSTEMS

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WHAT IT DOES

Goyen Network Systems are a range of products based on our regular stand-alone particulate measurement products but which benefit from network technology. These networked versions offer significant cost savings when considering multiple measurement points. In many cases they also offer improved functionality.

All products are rugged industrialised solutions meeting typical industry measurement requirements. The various units are used in conjunction with the EMS6 Particulate Monitors to produce complete solutions to the problems of measuring and reporting particulate emissions from modern-day industrial processes.

PRODUCT DESCRIPTION

The N6-BD

The N6 burst bag detection system provides a networked solution to monitoring media leakage on large and multiple-filter plant. With the ability to monitor up to 6 points per controller, the unit offers an extremely cost effective solution whilst providing an informative and clear user interface.

The unit can be configured to measure from 1 to 6 measurement points, includes a local display and two alarm relays per channel. The unit is supplied uncalibrated with data expressed as 0 to 100% of range. The sensitivity of each probe can be set to high, medium or low representing nominal ranges of 0 to 20 mg/Nm³, 0 to 150 mg/Nm³ and 0 to 1000 mg/Nm³.

The N6-TM

The N6 trend monitor provides a networked solution to monitoring particulate emissions from large and multiple-filter plant. Like the N6-BD the TM can monitor up to 6 points per controller. The TM offers additional functionality in the form of a larger multi-line display, 4 to 20 mA outputs and the facility to calibrate the raw particulate measurement. The raw particulate measurement is calibrated against isokinetic, gravimetric analysis enabling the TM to report emissions quantitatively in units such as mg/Nm³.

The unit can be configured to measure from 1 to 6 measurement points and includes multiple-user displays on a 2.4″ backlit LCD display. Each channel is equipped with a 4 to 20 mA current loop output and a high-level alarm relay. Like the N6-BD, the sensitivity of each probe can be set to high, medium or low representing nominal ranges of 0 to 20 mg/Nm³, 0 to 150 mg/Nm³ and 0 to 1000 mg/Nm³.

The N3-ER

The N3-ER adds another level of sophistication to the measurement of particulate emissions. With its 5.7″ colour touch screen it provides the user with a wealth of useful information in a simple and clear format. With an automated calibration facility, multiple time-based averages, multiple alarms and a variety of data display formats the N3-ER provides everything a user could want. Real-time and historical data at your finger tips, tabular, bar graph and trend formats along with full diagnostic and alarm features. The unit includes onboard data storage and the ability to connect to a remote PC. In addition to downloading data from the N3-ER a user at the remote PC can also view and control the unit without leaving their desk. The real power of the unit becomes clear with its enormously time-saving reporting facility that produces fully formatted emissions reports with just a few key strokes. The N3-ER can be supplied either as a 1, 2 or 3 channel device.

The N15-ER

The N15-ER offers all the functionality of the N3-ER but offers the scope to measure up to 15 measurement points. It boasts an 800 × 600 pixel, 10.4″ colour touch screen, which does a fantastic job of displaying a wealth of data, clearly, vividly and all with just a few touches of the screen.

Both the N3 and N15-ER systems can be provided with a facility to permit remote internet-based support, enabling fast, low-cost support, advice and upgrades.

Both ER units are housed in IP65/NEMA 4 steel enclosures and can be located at most convenient points throughout an industrial facility.

Data is acquired using the industry standard RS485 MODBUS communications protocol which means regular and reliable data from various plant locations via simple and low-cost installations.

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TECHNICAL SPECIFICATION

N6-BD BURST BAG DETECTION	N6-TM TREND MONITOR	N3-ER EMISSIONS REPORTING	N15-ER EMISSIONS REPORTING
Maximum 6 Channels	Maximum 6 Channels	Maximum 3 Channels	Maximum 15 Channels
Configurable in 1 channel increments	Configurable in 1 channel increments	Configurable in 1 channel increments	Configurable in 3 channel increments
Backlit Monochrome	Backlit Graphic Monochrome	Colour Touch Screen (256 colours)	Colour Touch Screen (65k colours)
2 Line × 16 Character Display	2.4" – 128 × 64 pixels	5.7" – 320 × 240 pixels	10.4" – 800 × 600 pixels
Signals displayed in percent	Multiple Displays	2 GB Integral Data Storage	2 GB Integral Data Storage
6 off High Alarm Relays	6 off High Alarm Relays	Automatic Emissions Reports	Automatic Emissions Reports
6 off High/High Alarm Relays	Alarm Hysteresis Function	Trends, Tabular & Bar Graphs	Trends, Tabular & Bar Graphs
Internal Diagnostics	Calibration Facility	Historical Review Capability	Historical Review Capability
	Internal Diagnostics	Multiple Time-Based Averages	Multiple Time-Based Averages
Fault Relay	6 off 4 to 20 mA Outputs	Multiple Alarm Functionality	Multiple Alarm Functionality
	Fault Relay	Local/Remote Beacon/Siren Option	Local/Remote Beacon/Siren Option
	Onboard Data Logging Option	PC View, Control & Download s/w	PC View, Control & Download s/w
ABS IP65 Enclosure	Steel IP65 Enclosure – RAL 7035	Steel IP65 Enclosure – RAL 7035	Steel IP65 Enclosure – RAL 7035
320 × 260 × 130	380 × 380 × 210	380 × 380 × 210	500 × 500 × 210
85 to 263 V AC, 47 to 63 Hz, 60 W	85 to 263 V AC, 47 to 63 Hz, 60 W	85 to 263 V AC, 47 to 63 Hz, 60 W	85 to 263 V AC, 47 to 63 Hz, 60 W
		Remote Internet Support Service	Remote Internet Support Service

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