



SootAlert[®] Diesel Particulate Filter (DPF) Monitoring

Johnson Matthey's diesel particulate filter monitoring system optimizes engine performance with advanced monitoring of the filter status and filter regeneration

Benefits

- For emergency backup and prime power generators
- The Johnson Matthey diesel particulate filter system uses advanced hot exhaust gas filter regeneration that is simple and reliable. The hot exhaust gas regeneration method helps to maintain engine manufacturer's maintenance recommendations and avoid wet stacking concerns
- Included with all Johnson Matthey CARB verified diesel particulate filters systems

Johnson Matthey
Inspiring science, enhancing life



Engineering Innovation Makes the SootAlert Unique

The SootAlert monitor ensures the filter system is always ready for full load engine operation by monitoring the exhaust gas temperature and back pressure. Each time the engine is operated, the SootAlert monitor checks the time, pressure, and temperature of the filter system, and displays a Green Light when the filter is clean, a Yellow Light when it has begun to accumulate soot and a Red Light indicating that it is time to regenerate the diesel particulate Filters.

Regenerating the filters is easy—just operate the engine at the recommended load until the SootAlert light turns from Red to Green, and the filter system is good for another series of cold starts. Johnson Matthey's diesel particulate filter systems are sized for each engine application to allow for a minimum of 24 consecutive cold starts before filter regeneration is necessary (30 minutes per cold start). This method also conforms to most engine manufacturers' recommendations to run the engine under load periodically to maintain engine longevity and avoid wet stacking.

Proven Success

For over 40 years, Johnson Matthey has been the global leader in the emissions control industry. When it comes to performance and reliability, Johnson Matthey's diesel particulate filter system and SootAlert monitor technology has proven to be the superior solution for stationary diesel engines.

Johnson Matthey's SootAlert Monitor Specifications

Power Supply	<ul style="list-style-type: none">• Input voltage: 24VDC or 115VAC• Permissible range: 20.4VDC to 28.8VDC with less than 10% ripple
Graphic Display Screen	<ul style="list-style-type: none">• LCD type: STN, LCD display• Illumination backlight: white LED, software-controlled• Display resolution: 128 x 64 pixels; Viewing area 2.4"
Keypad	<ul style="list-style-type: none">• Key type metal dome, sealed membrane switch; 20 keys
Removable Memory	<ul style="list-style-type: none">• Micro SD card: data logged at 5-min. intervals with up to 5 years of data storage capacity export .csv files to Excel
Remote Operator	<ul style="list-style-type: none">• Allows the user to control all the functions of the SootAlert Monitor either locally via a serial connection or remotely with the Ethernet connection.
Miscellaneous	<ul style="list-style-type: none">• Real-time clock functions (date and time)• Battery replacement: coin-type 3V, lithium battery, CR2450
Weight/Dimensions	<ul style="list-style-type: none">• Weight: 2.27 kg (5.0 lbs.)• Size: 240 x 223 x 150mm (9.52 x 8.85 x 5.95")
Environment	<ul style="list-style-type: none">• Operational temperature: 0 to 50°C (32 to 122°F)• Storage temperature: -20 to 60°C (-4 to 140°F)• Relative humidity: (RH) 10% to 95% (non-condensing)
Mounting Method	<ul style="list-style-type: none">• Panel mount IP65 rated enclosure



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