

HAPGuard[®] Exhaust Temperature & Pressure Monitor

Ensures that your catalytic converter stays in compliance with RICE NESHAP.

Benefits:

- >> Continuous monitoring of exhaust temperature and pressure ensures that your converter remains in compliance with the RICE NESHAP regulation
- >> Alerts operator if the pressure drop across the catalyst is not within 2" w.c. of the value established during initial testing at 100% load
- >> Warns operator if the catalyst inlet temperature is out of the EPA-specified range for rich burn or lean burn engines
 - Rich Burn: $750^{\circ}\text{F} < T_{\text{Catalyst Inlet}} < 1250^{\circ}\text{F}$
 - Lean Burn: $450^{\circ}\text{F} < T_{\text{Catalyst Inlet}} < 1350^{\circ}\text{F}$
- >> Up to 5 years of data storage on SD card
- >> RS232/RS485 or Ethernet communication
- >> Proven technology, engine-tested
- >> State-of-the-art electronics, battery back-up
- >> User-friendly
- >> Simple, easy to read LCD display
- >> Removable memory; stores up to 5 years of data

Why Johnson Matthey's HAPGuard[™] Monitor?

As owner/operators of stationary engines, you know Johnson Matthey represents the highest quality in emission control systems. Johnson Matthey developed the **HAPGuard monitor** to complement our Modulex[™] HAPs converters, the latest line of our modular catalytic converter / silencers. The **HAPGuard monitor** is easy to use and has been engine-tested for proven performance.

Proven Success

At Johnson Matthey, we know catalysts and we know stationary engines. We are established since 1817 and we are the only company that has total control over both the catalyst and the converter housing. We introduced the original Hatchback catalytic converter—the first converter to allow easy access to the catalyst element. We continue to develop innovative products and have optimized our latest generation of converters for your RICE NESHAP applications.

Compliance can be complicated, but you can count on Johnson Matthey to manage and monitor your RICE NESHAP solution while you focus on your core business.



Johnson Matthey
Stationary Emissions Control

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Technical Specifications:

Power Supply

- >> Input voltage: 24VDC or 110VAC

Graphic Display Screen

- >> LCD type: STN, LCD display
- >> Illumination backlight: white LED, software-controlled
- >> Display resolution: 128 x 64 pixels; viewing area 2.4"

Keypad

- >> Key type metal dome, sealed membrane switch; 20 keys

Removable Memory

- >> Micro SD card: data logged at 5-min. intervals with up to 5 years of data storage capacity; export .csv files to Excel

Alarm Output

- >> Dry contact for external alarm light or buzzer

Miscellaneous

- >> Real-time clock functions (date and time)
- >> Battery replacement: coin-type 3V, lithium battery, CR2450

Weight/Dimensions

- >> Weight: 3.53 kg (7.78 lbs.)
- >> Size: 294 x 279 x 159mm (11.75 x 11 x 6.25")

Environment

- >> Operational temperature: 0 to 50°C (32 to 122°F)
*optional heater for colder environment is available.
- >> Storage temperature: -20 to 60°C (-4 to 140°F)
- >> Relative humidity: (RH) 10% to 95% (non-condensing)

Mounting method

- >> Panel mount IP65 rated enclosure



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