



**UNIVERSAL**  
Acoustic & Emission Technologies

**QuietShield™** with  
**GreenShield®** technology

## Compliance Guide to EPA's 40CFR Part 63

**SI (Natural Gas) RICE NESHAP  
Compliance Guide**

Exhaust System Considerations  
Lean Burn Catalyst Systems  
Rich Burn Catalyst Systems  
Compliance Catalyst Monitor

# GreenShield® Catalyst Monitor

For RICE NESHAP Compliance

The GreenShield® Catalyst Monitor displays and records exhaust gas temperature and catalyst differential pressure, a requirement for RICE NESHAP compliance. Pressure and temperature signals are received from sensors located upstream and downstream from the catalyst. Catalyst inlet temperature and differential pressure are displayed textually on the monitor screen and logged on a microSD memory card. If the catalyst temperature or differential pressure is out of recommended ranges, warnings and alarms will be displayed textually and with external lights. An “Attention required” signal output is also available.

## Features:

1. Programmable Logic Controller (PLC) with integral Human Machine Interface (HMI)
2. Orange light to indicate temperature or pressure warning
3. Red light to indicate temperature or pressure alarm
4. “Attention required” Form C dry contact set (internal)
5. Circuit breaker protected power lines
6. Ability to mount remotely from engine
7. microSD card to for easy access to thousands of hours of logged data

## Specifications:

### Monitor:

- Dimensions: 300 X 300 X 150 mm
- NEMA 4 rated enclosure
- 100-240 V AC power supply

### Environmental requirements:

- PLC must be protected from UV degradation (optional internally mounted PLC with view port door available).
- The Monitor enclosure must be located in an operational environment of 0° to 50°C (32° to 122° F). If the minimum temperature cannot be ensured an optional enclosure heater or cooler may be requested.

### Weight:

- 7.7 kg (17 lb)

### Mounting interface:

- (4) 8.2 mm diameter holes
- Horizontal spacing = 260 mm
- Vertical spacing = 320 mm

### Part Number: 18-7000079

### Delivery Time: 2–4 weeks

- These specifications represent Universal Emission Technologies' standard design. Universal Emission Technologies can provide custom designs to meet your specific system performance requirements.



The GreenShield® Catalyst Monitor provides data logging, text readouts and color coded visual alarms.

