

# NAE Monitoring System

The NAE range of audio-visual Monitoring Systems are designed to monitor levels, pressures and temperatures on all types of engines. The NAE 3M/4M unit has 3 and 4 channels available for selection of monitor points by the customer.

The vast variations in local climatic and working conditions were taken into account in the design, development and manufacture of the NAE Type system.

## How It Works

---

The NAE Type monitor is designed to detect early warning signs of premature or inevitable mechanical failure as a consequence of:

- Coolant and lubricant losses.
  - Pressure malfunction.
  - Temperature malfunction.
- Should malfunction occur, the NAE Type monitoring system will:

- Sound an alarm beeper (Audio)
- Activate a LED warning light on the LED Module (Visual).
- Indicate the malfunction by way of a correspondingly marked LED light.

### Shut Down Options:

- No engine shutdown but can activate siren and/or hazard beacon light.
- Complete engine shutdown with time delay options.
- Torque reduction with time delay options.

### Features

---

1. The NAE Unit circuits and probes are independent of the existing electrical systems that are manufactured standard on the machines or equipment.
2. Master key switch (optional) enables authorized persons to neutralize the system under emergency conditions.
3. Circuit wires are colour coded for easy identification.
4. An automatic test program to verify the entire monitor system is continuously in operating condition while equipment is switched on.
5. Built-in monitor system malfunction detection and problem identification
6. Self contained protection against reverse polarity.

### Additional Functions

- Water flow (Special applications).
- Belt break switch.

The flexibility of the monitoring system is that it can combine any of the functions to suit your requirements.



## Typical NAE Type Monitoring Points

---

### **LEVELS:**

- Water – Radiator
- Water – Water Tank
- Engine Oil
- Transmission Oil
- Diesel Oil
- Hydraulic Oil
- Fuel

### **TEMPERATURES:**

- Engine Water Coolant
- Transmission Oil
- Hydraulic Oil
- Cylinder Head
- Converter
- Compressor Oil

### **PRESSURES:**

- Water
- Engine Oil
- Hydraulic Oil
- Crank Case (blow by)