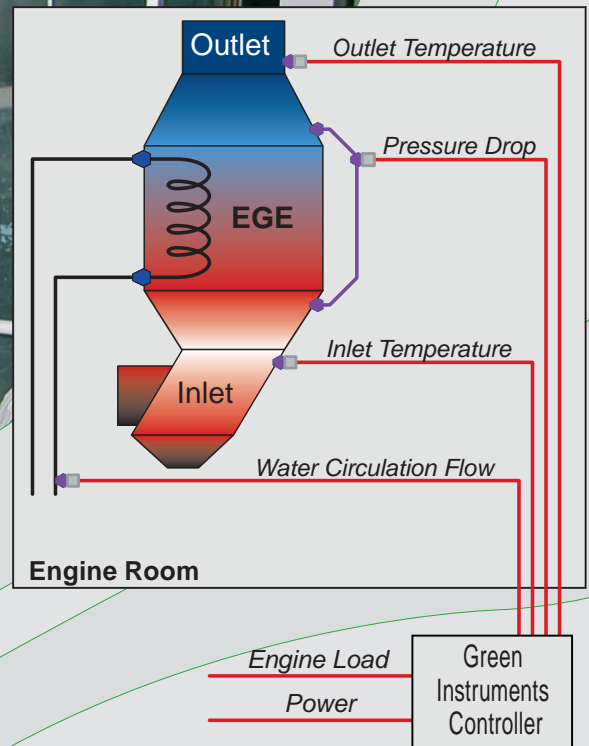


G5100 EGE Monitor



Soot Contamination Warning Alarm

Protect Your Exhaust Gas Economizers



Perfecting Sensible Technology

Soot deposit on the gas side and scale build up on the water side of the boiler tubes will reduce the heat transfer efficiency and thereby also reduce the performance of the exhaust gas economizer (EGE).

The loss of heat exchange can cause soot-burning to develop into high temperature fires. In extreme situations, heat accumulation, steam built-up and steam blockage of the water circulation within the boiler tubes may lead to EGE meltdown.

To maintain efficiency of the EGE and to avoid any critical problems, you need to keep the boiler clean!

In order to help you accomplish that task easily, we offer a system, which provides an accurate diagnosis of soot contamination and scale built-up. This provides you the best time for cleaning.

The G5100 EGE Monitor is designed for the dynamic monitoring of multiple parameters including pressure

drop across the EGE and inlet and outlet temperatures in relation to the engine load.

The unique feature of the G5100 EGE Monitor is that the dynamic monitoring also takes the actual engine load into account. Some EGEs have static control systems including temperature and pressure sensors. However, these systems will only activate the alarms based on a full engine load condition. This means that they cannot detect any problems under low load condition as the G5100 EGE Monitor can.

Moreover, water circulation monitoring can be optionally added to the G5100 EGE Monitor. This extra feature helps prevent the boiler from insufficient water circulation - a crucial problem which might lead to a meltdown of the economizer - an extremely high damage.

The G5100 EGE Monitor contributes considerably to a more efficient and safer operation of any exhaust gas economizer.

Diagram of the G5100 EGE Monitor

Specifications - G5100 EGE Monitor

G5100 Monitoring Cabinet

Ambient temperature	0 °C to 50 °C
Power supply	100-240 VAC – 50/60 Hz – 0.9 A
Internal power supply	24 VDC
Digital display	Touch screen (95.4x53.9 mm)
Interface	4 alarm relay outputs – volt free, 230 VAC/5A
Analog input for load signal	4-20 mA input for active signal
Engine load range	0-100 MCR
Analog input (optional) for flow	4-20 mA input for passive signals
Flow range	0-50 m ³ /h
Dimensions (H x W x D)/Weight	395 x 295 x 180 mm (wall mounted)/Approx. 10.0 kg

Remote Input Module

Power supply	24 VDC
Input signals via module	4 * 4-20 mA input for passive signals
System interface via module	Analog 4-20 mA & CAN Open
Dimensions (H x W x D)/Weight	300 x 200 x 170 mm (wall mounted)/Approx. 5.0 kg

Differential Pressure Monitoring Module

Sensing tubes	1" x 200 mm with ½" connection piece
Sensing tubing	12 mm CU tube
DP transmitter range	Standard range: 0-400 mm WC
DP transmitter signal output	4-20 mA

Temperature Sensors

Sensor type	RT type AUI, Pt 100
Sensor range	0-500 °C
Sensor signal output	4-20 mA
Sensor dimensions	OD-11 x 500 mm

Flow sensor (optional)

Flow sensor type	Pitot Tube
Flow range	0-50 m ³ /h
Flow signal output	4-20 mA

Other Optional Equipment

Signal amplifier for load signal	
Specifications subject to changes without notice	