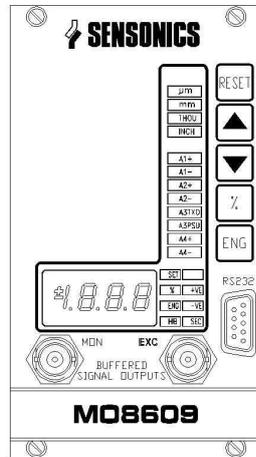


SENTRY SYSTEM



MO8609 - LVDT MONITOR MODULE



- * AC LVDT INPUT
- * MODULAR, RACK MOUNTED
- * INDEPENDENT MICROPROCESSOR
- * PROGRAMMABLE SET UP VIA RS232
- * INDEPENDENT POWER SUPPLY
- * MONITORS IN DISPLACEMENT
- * HIGH VISIBILITY DISPLAY
- * 4 ALARM RELAYS PER MODULE
- * UP TO 6 RECORDER OUTPUTS PER MODULE
- * DESIGNED TO MEET API 670

The Sensonics MO8609 Module forms one of the SENTRY Microprocessor based series and is a signal conditioning unit that provides the ac excitation to an LVDT and accepts the returning ac signal as an input. The modules in the SENTRY series are designed to be housed in the Sensonics RA8600 series 19 inch 3U extended eurocard rack system.

The signal conditioning unit is fitted with a numeric 3 1/2 digit indicator for display. This will normally indicate the displacement in the selected units as set up in the software. Front panel buttons permit selected operational software settings to be viewed on the indicator/display. A "time out" function ensures that the display will revert to the normal reading after a preset time.

Signal Conditioning

The module accepts the ac signal from an LVDT. The input is conditioned to measure and is normally displayed in displacement in the selected units as set up in the software and may be displayed in metric or imperial units, however by depressing the "%" button on the front panel will result in the display expressing the reading as a percentage of the selected stroke of the LVDT.

The module has 2 independent displacement level alarms, A1 and A2. When the signal level exceeds an alarm level for a specified period the associated lamp will be illuminated on the display and the state of the appropriate relay changed. The module has four alarm relays as standard each of which may be set independently to be latching or non-latching, normally energised or de-energised and normally open or closed.

A channel integrity alarm A3 monitors the Transducer/PSU and Microprocessor for each channel and an A3 alarm relay is provided. A green A3 TXD and A3 PSU "OK" LED illuminates on the front panel for each channel. If the TXD or PSU are faulty (green LED unlit) then the associated A3 relay will change state.

An A4 Reading Invalid alarm monitors the calibrated range as set up in the software, the A4 alarm relay tripped will indicate that the reading is "not valid", ie the transducer is displaced beyond its calibrated range. An A4 alarm relay is available, and an individual indication is available for each channel by the illumination of a red A4 LED.

The "MON" BNC connector on the front panel provides information on the LVDT's signal. The signal level is equivalent to the incoming signal in amplitude and phase.

The "EXC" BNC connector on the front panel provides a buffered ac excitation voltage output for local monitoring.

Signal Outputs

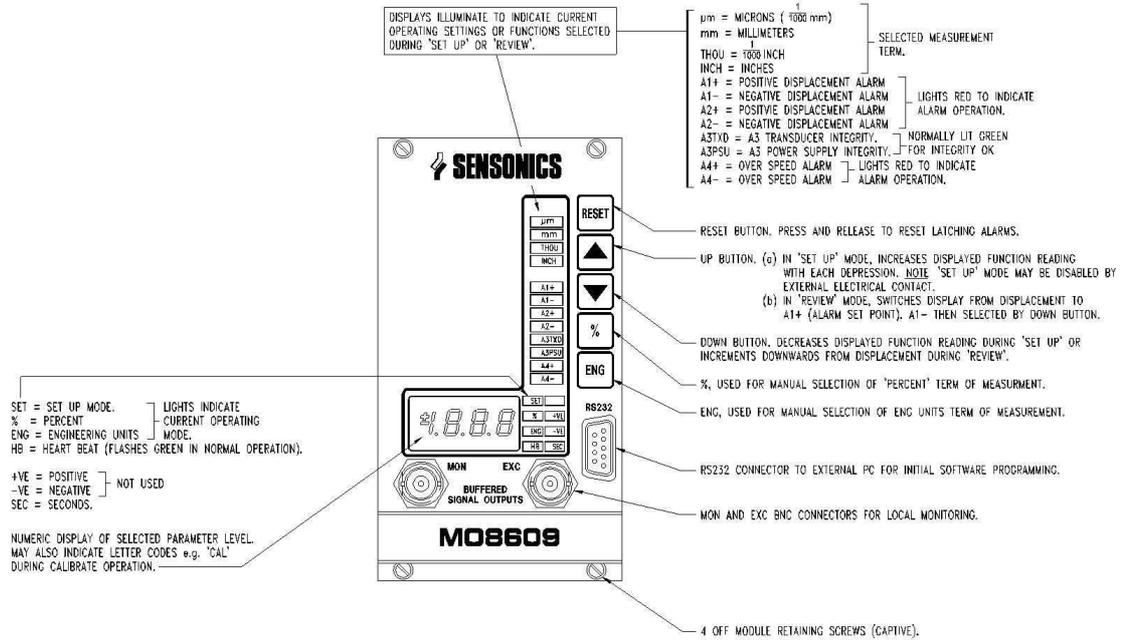
The module will provide up to 6 outputs of a combination of current and voltage outputs as required.

SENSONICS LTD

SENTRY SYSTEM

MO8609 - LVDT MONITOR MODULE

Front Panel Facilities and Functions



SPECIFICATIONS

Input

Excitation Signal	3.54V rms at 3 KHz
Transducer Type.....	AC LVDT
Power Supply	110V or 240V AC 50-60 Hz
Operating temperature range	0°C to 50°C

Output

Displays	3½ digit indicator
Meter accuracy	+/- 5% of true value
Recorder outputs	Up to 6 voltage or current outputs per module
Relays.....	4 alarm relays per module as standard A1 and A2 - level alarms A3 - Channel integrity alarm A4 - Reading invalid alarm
Buffered output	"EXC" BNC connector on front of panel provides ac excitation voltage output. "MON" BNC connector on front panel provides information on the ac LVDT signal.

Dimensions

Height	128.8mm (3U)
Width	70.7mm (14HP)

DS1039



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