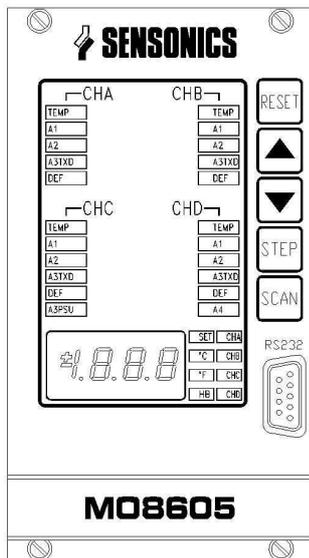


SENTRY SYSTEM



MO8605 - FOUR CHANNEL TEMPERATURE MODULE



- * 4 RTD or 2 THERMOCOUPLE INPUTS.
- * MODULAR, RACK MOUNTED.
- * INDEPENDENT MICROPROCESSOR.
- * PROGRAMMABLE SET-UP VIA RS232.
- * INDEPENDENT POWER SUPPLY.
- * MONITORS TEMPERATURE IN °C or °F.
- * HIGH VISIBILITY DISPLAY.
- * 4 ALARM RELAYS PER MODULE.
- * 4 RECORDER OUTPUTS PER MODULE.
- * AUTO STEP FACILITY.

The Sensonics MO8605 Module forms one of the SENTRY Microprocessor based series and is a signal conditioning unit for monitoring four temperature signals from RTD's. The modules in the SENTRY series are designed to be housed in the Sensonics RA8600 series 19 inch 3U extended euroccard rack system. The signal conditioning unit is fitted with a digital indicator. This will normally indicate temperature in the selected units from any channel. 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 vibration reading after a preset time. A cycle mode is also selectable from the front panel which will allow the module to continuously cycle the display through all four channels.

Signal Conditioning

The module accepts 4 temperature signals from RTD's. These are conditioned to give four independent measurements of Temperature accurate to within +/- 0.5% of the true level. The signals may be displayed in one of two selectable ranges using °C or °F as units.

For each channel there are 2 independent temperature 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. There is provision for two extra relays to be fitted allowing a separate alarm relay for each channel.

A channel integrity alarm A3 monitors the Transducer/PSU and Microprocessor for each channel and a common 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 alarm is available for use as required by the customer. A common A4 alarm relay is available, and an individual indication is available for each channel by the illumination of a red A4 LED.

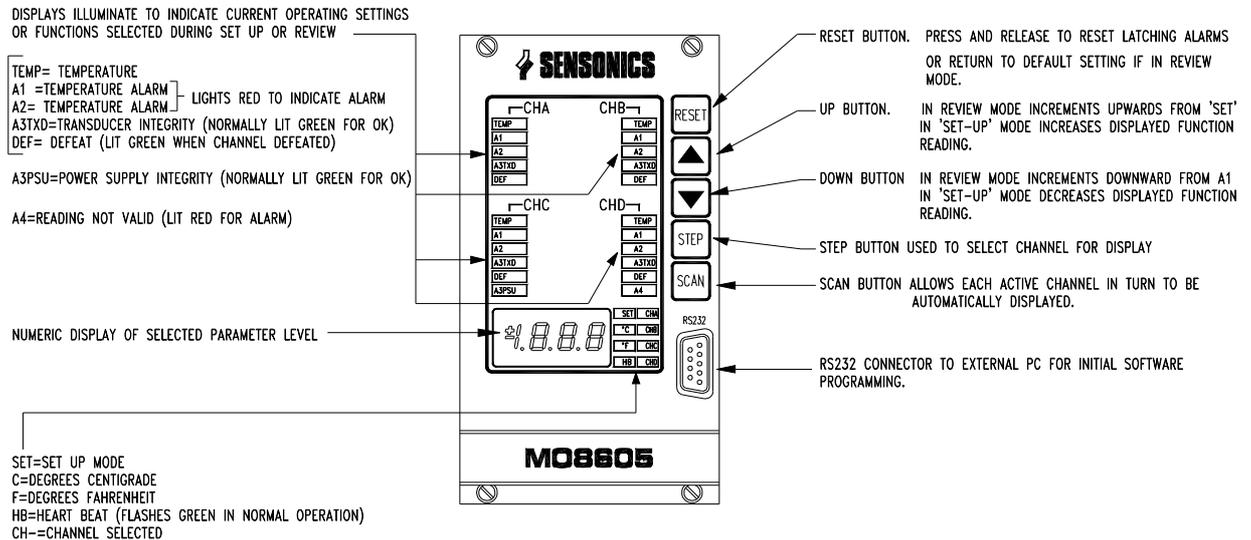
Signal Outputs

The module will provide 1 output per channel as a combination of current and voltage outputs as required. The range of the outputs may be set independently of the display and may also be set to increase or decrease with increasing temperature.

SENTRY SYSTEM

MO8605 - FOUR CHANNEL TEMPERATURE MODULE

Front Panel Facilities and Functions



SPECIFICATIONS

Input

Temperature Range..... -50°C --+500°C
 Transducer Type RTD
 Power Supply 110V or 240V AC 50-60 Hz
 Operating temperature range..... 0°C to 50°C

Output

Display..... 3½ digit indicator
 Meter accuracy +/- 0.5°C
 Recorder outputs Up to 4 voltage or current outputs per module
 Relays 4 alarm relays per module as standard
 A1+ and A2+ level alarms
 A3 - Channel integrity alarm
 A4 - Spare

Dimensions

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

DS1035



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