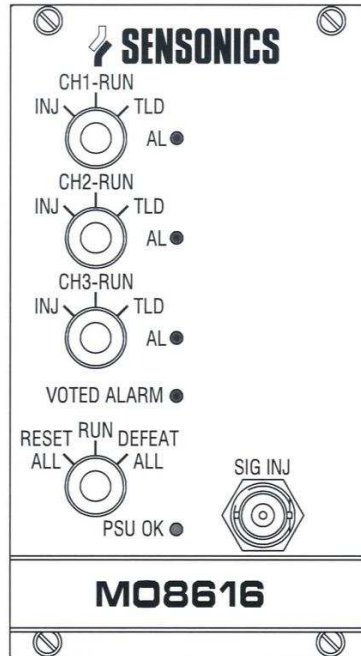


## SENTRY SYSTEM



### MO8616 – VOTING AND DIAGNOSTICS MODULE



- \* 3 PROXIMITY PROBE / SWITCH INPUTS.
- \* MODULAR, RACK MOUNTED.
- \* INDEPENDENT POWER SUPPLY.
- \* HIGH VISIBILITY LED DISPLAY.
- \* INDIVIDUAL CHANNEL TRIP TEST
- \* SIGNAL INJECTION CAPABILITY
- \* MODULE INTEGRITY ALARM.

The Sensonics MO8616 Module is one of the SENTRY series signal conditioning units that is used to provide 2 of 3 voting functionality and diagnostic facilities. The modules in the SENTRY series are designed to be housed in the Sensonics RA8600 series 19 inch 3U extended eurocard rack system.

Robust relay logic is utilised to perform a 2 out of 3 logic function, providing a high integrity voting system when used in combination with the 86xx series of Sentry measurement channels.

The unit accepts voltage free contacts through the rack backplane and provides a set of change over contacts representing the voted alarm state. This is configurable to a latching or non-latching alarm mode. The front panel provides visual indication of each channel alarm status as well as the voted trip status. A reset key switch is available for clearing down any alarms.

Diagnostics are included within this unit accessible through individual key switches located on the front panel. The measurement probe inputs are routed through the 8615 module and on to the rack backplane for distribution to the measurement modules, this is the normal Run mode of operation. Each channel switch has three options, 'Run', 'Test' and 'Inject'.

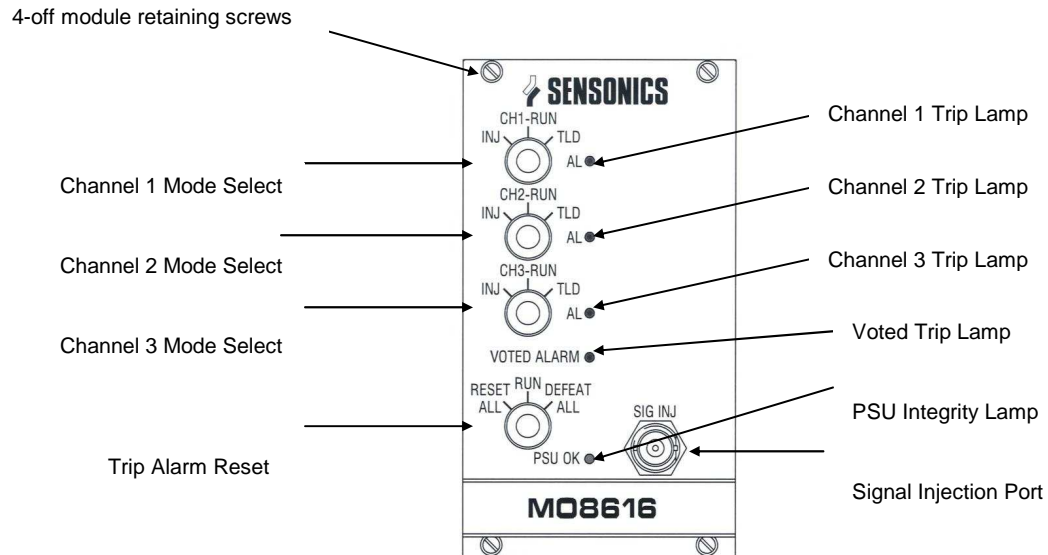
The Run position is the normal mode of operation (key can only be removed in this position). The 'Test' position operates the Trip Level Divide function, which permits individual channels to be tested online by modifying the trip level. The 'Inject' position provides the facility to drive an external speed signal (derived from a signal source) to individual speed modules to verify accuracy and trip points. Under this mode the probe input is removed and the signal source applied to the selected speed module.

A PSU integrity alarm relay and lamp is available to indicate module health. A separate Key switch is provided to reset the module.

# SENTRY SYSTEM

## MO8615 – VOTING AND DIAGNOSTICS MODULE

### Front Panel Facilities and Functions



### SPECIFICATION

#### Input

Transducer Type . . . . .	Proximity probe or switch (2-wire) ICP Accelerometer (2-wire)
Power Supply . . . . .	24V DC (18V – 28V)
Power Consumption. . . . .	5W Max
Operating temperature range . . . . .	0°C to 50°C

#### Output

Signal Bypass . . . . .	<30mOhm series resistance
Trip delay. . . . .	16ms maximum
Relays . . . . .	Voted alarm relay output. Channel integrity relay alarm 250VDC 1A Rating Minimum contact current 10 <sup>-7</sup>

#### Injection Port

Connection . . . . .	BNC
Maximum Signal Input. . . . .	20 Volts pk-pk
Maximum Frequency . . . . .	10KHz
Recommended Source Impedance. . . . .	50 Ohm

#### Dimensions

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

DS1206



**Sensonics Ltd**  
 Northbridge Road  
 Berkhamsted  
 Herts, HP4 1EF  
 United Kingdom  
 Tel: +44 (0)1442 876833  
 Fax: +44 (0)1442 876477  
[www.sensonics.co.uk](http://www.sensonics.co.uk)