

## Signal Processing Modules

*These modules are used to provide continuous monitoring of vibration signals using accelerometers. The Standard versions (HS556 & HS557) provide all the basic functions required by most users in a cost-effective format. The Premium modules (HS530 & HS535) add additional outputs and configuration options for the advanced user. The Specialty module (HS540) can be paired with any module to add Temperature monitoring to a system when used with a temperature output sensor.*

Part No.	Description
HS530	Premium module provides RMS Velocity, Envelope Acceleration, and Raw (AC) Signal outputs. RMS Velocity and Env. Acceleration as 0-10v, Raw (AC) Signal at BNC connector. Option for RMS Acceleration in place of RMS Velocity.
HS535	Premium module provides RMS Velocity, Acceleration (pk or pk-pk), and Raw (AC) Signal outputs. RMS Velocity and Acceleration as 0-10v OR 4-20mA, Raw (AC) Signal at BNC connector. Option for RMS Acceleration in place of RMS Velocity.
HS540	Module converts voltage to mA or mA to voltage. Pairs with HS530 or HS535 to add Temperature monitoring (using HS1X0T series sensor).
HS556	Standard module provides RMS Velocity OR RMS Acceleration output as 4-20mA. Raw AC Signal output at BNC connector.
HS557	Standard module provides RMS Velocity OR RMS Acceleration output as 4-20mA along with Temperature as 4-20mA. Raw AC Signal output at BNC connector and via terminals.



HS530 / 535 Module



HS540 Module



HS556 / 557 Module

# MODULAR VIBRATION MONITORING SYSTEMS

## Trip & Display Module

The HS510 Trip & Display module is fully configurable with dual relays, relay inhibit, and delay start-up features. The module features a bright green LED display (3 ½ digit). Compatible for use with 4-20mA sensors or HS500 series signal processing modules.

Part No.	Description
HS510	Single channel Trip & Display module for use with 0-10 volt or 4-20mA inputs. Fully programable for trip levels, latching or non-latching relays, relay delay settings, and input types. Compatible with Loop Powered sensors and Vibration Transmitters.



HS510 Trip & Display Module



HS510 Front Panel

## Power Supplies

Part No.	Description
HS570-XX	24-volt DC power supplies provide isolated power to HS500 Series modules. Three capacity options available: 20 watts (up to 8 modules), 40 watts (up to 12 modules) and 60 watts (up to 20 modules). Input power range is 85 to 260-volts AC.

## System Enclosures

The HS580 Series system polycarbonate enclosures are pre-wired for the HS500 Series modules. Each enclosure includes power supplies and cooling fans. These enclosures provide IP66 sealing (excluding fans). Optional items available include flashing beacon and siren modules. Customization of the enclosure front door is available. Available in Stainless Steel by quotation.

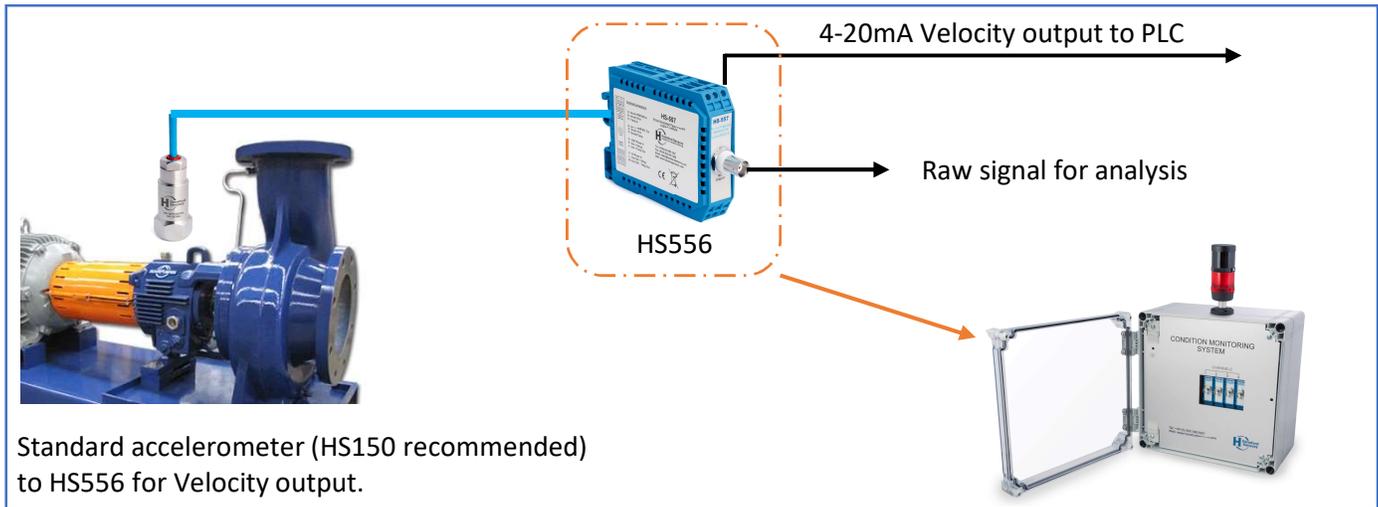
Part No.	Description
HS580-XX	Pre-wired polycarbonate enclosure for HS500 Series modules. Available in 2 to 16 module versions (see datasheet for dimensional information). All enclosures include power supplies (85 to 260-volt input) and cooling fans.
HS590	Flashing beacon light and siren modules.
HS591	Flashing beacon light module.
HS592	Siren module.
HS580-Panel	Custom engraving / marking on front panel.



## Sample Applications

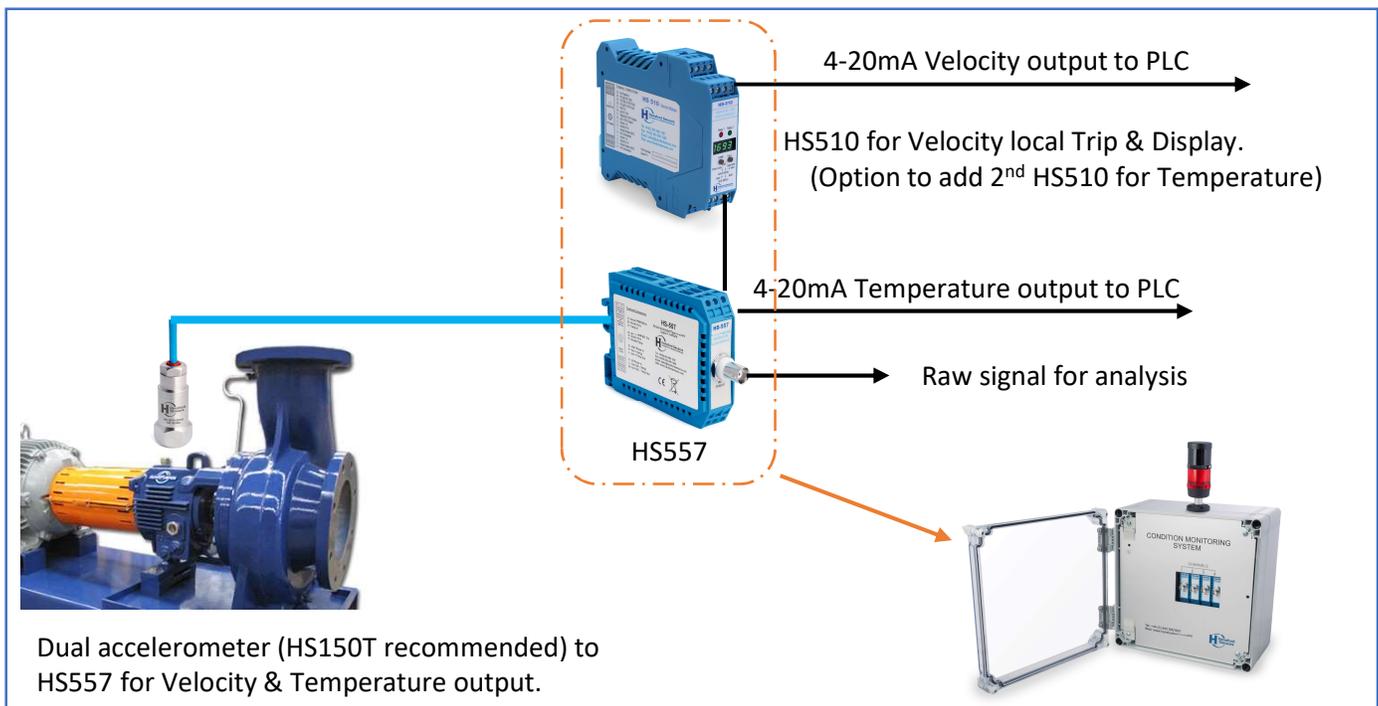
### Machinery Health Monitoring – Velocity Only

The entry level to monitoring uses Velocity for detection of a general change in machinery condition. Analysis of the fault source would be required after detection.



### Machinery Health Monitoring – Velocity & Temperature

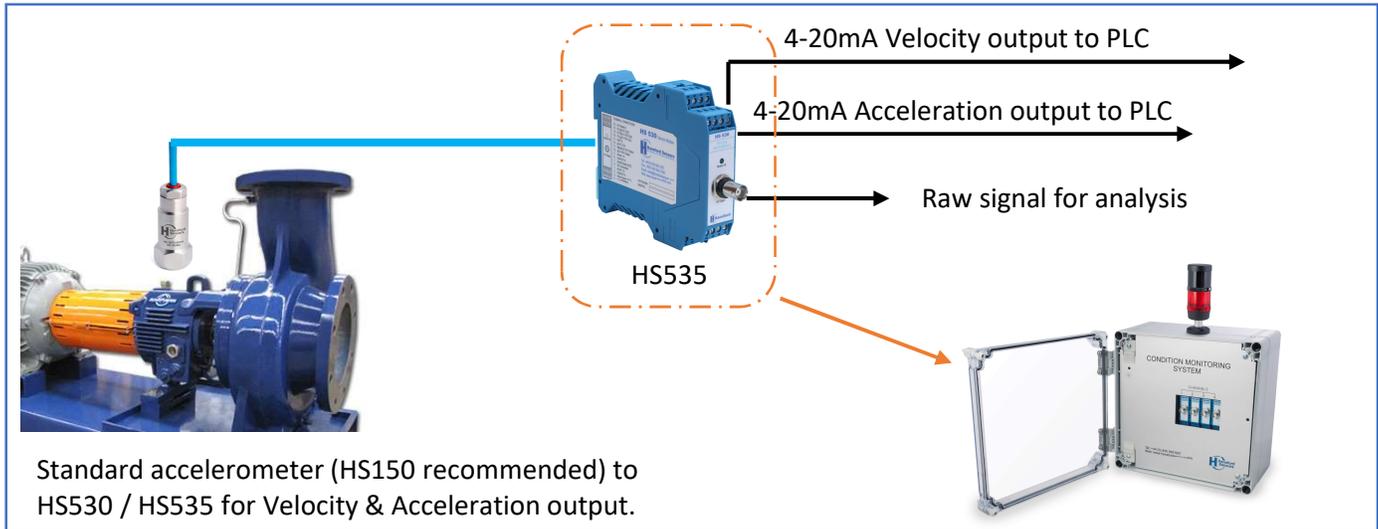
The next level for monitoring may use Velocity & Temperature for detection of a changes in machinery condition. **Option** to add Trip & Display module shown. Dual accelerometer required.



## Sample Applications

### Machinery Health Monitoring – Velocity & Acceleration

Multi-parameter monitoring using Velocity & Acceleration provides a more advanced monitoring approach for the detection of a changes in machinery condition.



### Machinery Health Monitoring – Velocity, Acceleration & Temperature

The addition of Temperature to the multi-parameter monitoring provides the most complete monitoring approach for the detection of a changes in machinery condition. Dual accelerometer required.

