



# GILCHRIST TECHNOLOGY, INC.

PROVIDING THE MEANS FOR ACCURATE MEASUREMENT

## Model 3501/02 Acceleration and Velocity Vibration Transmitter



## 3501/02 Vibration Transmitter

The Model 3501 and 3502 is an affordable and reliable vibration monitoring

### STANDARD FEATURES

The 3500 Series Vibration Transmitter was designed to be an inexpensive alternative to the more elaborate protection monitoring systems. The 3500 offers several standard features, such as:

- \* **Galvanic isolated loop**
- \* **Small size, suitable for multiple units in space limited areas**
- \* **Connects directly to a PLC and/or plant DCS**
- \* **Low cost**
- \* **Buffered outputs for analysis**

### OUTPUTS

Most units are provided with broad band frequency response, however,

The models 3501 and 3502 conditioners can provide high pass, low pass and narrow band pass filters upon request.

### INPUTS

All 3501 and 3502 Vibration Transmitters provide a 2 to 5 milliamper current source to power most industrial accelerometers and velocity transducers with internal electronics

### OPTIONS

Zero and span controls are provided to allow for trim adjustment in the field.

The Model 3501 is designed to be used with accelerometers that have internal electronics and requires 3 to 5 Ma of excitation current.

The Model 3502 operates with a velocity transducer as an input. This can be a transducer with internal electronics or from a coil type self generating velocity pickup.

Three mounting configurations are available. The Model 3520 provides places for 6 conditioners and system power supply.

The 3526 provide slots for 2 each Vibration Transmitters, dual set point modules, dual relay modules and system power supply.

The module 3524 is a single unit mount that snaps into a DIN rail.



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# Model 3501/02

## General Specifications

### STANDARD FEATURES

#### Accuracy

##### Accelerometer

2Hz to 40 kHz  $\pm$  2% Plus transducer error  
 0.5 Hz to 50kHz  $\pm$  3 db Plus transducer error

##### Velocity

10 Hz to 10 kHz  $\pm$  2% plus transducer error  
 5 Hz to 20 kHz  $\pm$  10% plus transducer error

##### Displacement Units

10 Hz to 2 kHz  $\pm$  2% plus transducer error  
 5 Hz to 3 kHz  $\pm$  10% plus transducer error

### OUTPUTS

#### Full Scale

0 to +1V (to drive set point modules and external meters) **Full Scale**

#### Loop

4 to 20 ma. Approx. 25 Ma current limit

### POWER REQUIREMENTS

#### Module Power

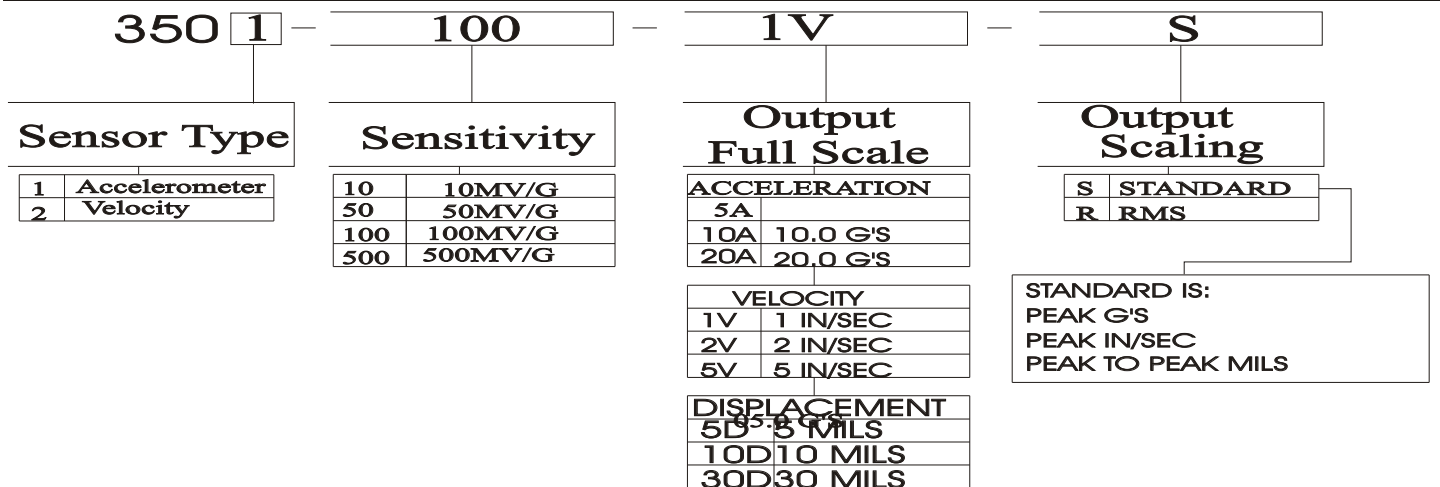
< 25Ma.

#### Loop Power

25 Ma. Max

#### Weight

### ORDERING INFORMATION



Contact your local GTI Representative for more information: