# Accuguard

## Condition monitoring and protection system

### Introducing Accuguard:

Introducing Accuguard, a cost effective solution for continuous monitoring of vibration, temperature and bearing conditions of a rotating machine.

Accuguard can be programmed to automatically shut down the machine should monitored parameters rise to dangerous levels. The colorful 2.8″ display shows real time information such as bar charts and LED indicators. View historical trending charts or event recordings with a push of a button. Accuguard can be used as a signal transmitter providing 4-20mA outputs of monitored parameters for further applications.

Accuguard acquires both vibration and temperature signals at the same time with specialized dual output sensors** for comprehensive monitoring of your machine.

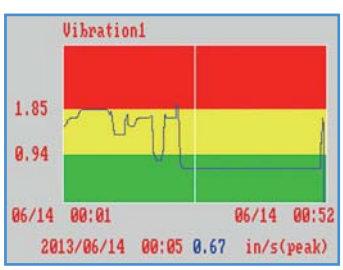
(** IEPE type accelerometers with temperature signal output)

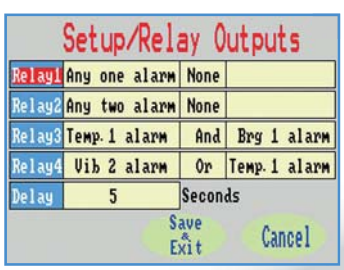
### Parameters monitored:

Safely monitor simultaneously up to six parameters for accurate protection: 2 vibration levels, 2 temperature and 2 bearing conditions. The measured levels of these 6 parameters are then displayed and can be converted to 4-20mA output signals for connection to your machine or instrument for further applications.

### Programmable logic and relay outputs:

Each Accuguard system provides 4 relay outputs, which are controlled by user selectable programmable logic. Simply select what condition(s) you want alarm levels to be set to from a menu list, and Accuguard will be set and ready to protect your investment.


**Benstone Instruments, Inc.**
PIONEERING PARTNERSHIP PERFORMANCE



# Accuguard

## Condition monitoring and protection system

### PC interface / Setup:

Setting the measurement parameters of Accuguard is easy with the built-in keypad or by downloading directly from your computer via the USB port. Also, the user can upload the stored trending data or event recordings to a PC for further analysis.

| Model name | Vibration | Bearing condition | Temperature |
|---|---|---|---|
| Accuguard-6TA | 2 | 2 | 2 |
| Accuguard-4A | 2 | 2 | 0 |
| Accuguard-2A | 2 | 0 | 0 |

## Specifications:

| | |
|---|---|
| Input channels | IEPE type accelerometer x 2<br>Temperature sensor x 2 |
| Monitored parameters | Vibration x 2, Bearing condition x 2, Temperature x 2 (optional) |
| Vibration measurement | Velocity, 5~1k Hz band passed (±5%) |
| Bearing condition | Acceleration, 1k~10k Hz band passed (±5%) |
| Temperature | DC signal (±5%) |
| Measurement range | |
| Vibration measurement | 0~50 mm/s peak (0~1.97 in/s peak) |
| Bearing condition | 0.05~50 g true peak or RMS detection |
| Temperature | 2°~120° C (36˚F~248˚F) |
| Relay output | Programmable relay output x 4, 3A 250VAC or 3A 30VDC |
| Analog output | 4-20 mA output x 6 (6TA), x 4 (4A), x 2 (2A) |
| Buffered Raw signal output | BNC connector x 2 channels |
| PC Interface | USB connection |
| Display | 2.8 inch, 320 x 240 color LCD with backlight |
| Display type | Bar chart, trend chart, event records and setup |
| Data Logger | 500 points for each measurement, time and date |
| Logger interval | Programmable normal span and alarm span |
| Power supply | DC 24V |
| Alarm levels & LED indicators | Normal/ Alarm 1/ Alarm 2 (green/ orange/ red LED for each monitored parameter) |
| Alarm delay | 0~600 seconds programmable |
| Operating Temperature | 0°~60˚C |
| IEPE Sensor bias indicator | Normal/ short/ open (green/ orange/ red LED) |
| Accelerometer sensitivity | 100mV/g ±30% |
| Temperature sensor sensitivity | 10mV/°C ±30% |
| Dimension | 200 x 180 x 115mm (7.87 x 7.08 x 4.53 inch) |
| Weight | 1Kg (1.32lb) |

Benstone INSTRUMENTS

**BENSTONE INSTRUMENTS, INC.**
**32905 Northland Court- St. Paul, MN 55045**
**Telephone: 651-257-6500**
**http://www.benstone.com**

01.2014 / 2000 03-108E/S Sunway 04-2322 7907