



## Alpha OS™

The AlphaOS is a high performance overspeed detector specifically developed for turbomachinery applications where high speed detection and shutdown is needed for enhanced safety.

### **Speed**

This compact monitor features the latest Texas Instruments® digital signal processor. This high speed processor allows the AlphaOS to quickly and accurately measure speed and acceleration and to issue a shutdown command to the turbine trip valves in the event of an overspeed or over acceleration event.

### **Accuracy**

Coupled to a magnetic pick-up vibration sensor, the AlphaOS accurately measures turbine speed and acceleration from 10 to 30,000 RPM . With an optional 4-20mA output , speed can be read out directly to the turbine control.

### **Ease of Operation**

The AlphaOS e is designed with an easy, DIN rail mount. Just connect the input and output wires and you are ready for operation.

### **Reliability**

The AlphaOS was designed using the fewest components to get the highest power in the smallest package. This robust design is ideal for heavy duty applications where reliability and availability is the highest priority. Analog I/O and a variety of digital communications can be added as options.

## Features

### **Applications**

Turbomachinery  
Gas Turbines

### **Fast Acting**

10 ms

### **Safety Functions**

Overspeed  
Acceleration

### **Diagnostics**

Test  
Overspeed trip  
Fault Log

### **Wide Temperature**

-20°C to +85°C

### **Communication**

Ethernet

### **Analog I/O**

4-20mA speed

### **Discrete I/O**

Fault

### **Terminal Interface**

DIN rail mount

### **Compact**

3" X 4" X 6"