



# P-Guard

## On-Guard® module for process input monitoring

### Key Features at a Glance

- Utilizes Windrock's "Smart" Transmitter
- Enables monitoring of additional parameters and communication via MODBUS
- Allows addition of phase referenced piston rod drop/rod runout measurements
- Modular System Architecture can be configured with other On-Guard® family modules to meet your monitoring requirements
- Installation is simple, fast and inexpensive
- Can be mounted at the machine to reduce the length of cable runs
- Optional On-Guard® Diagnostic software for monitoring, analysis, reporting, and trending
- On-Guard® Software available in single user and multi-user network license versions

### What's New

- Ethernet communication through device server

### P-Guard

The twelve channel module is a cost-effective method of obtaining a wide variety of critical process data for monitoring, trending, and alarming. By utilizing the P-Guard module, process data can now be easily correlated to the dynamic data captured by one of our other On-Guard® modules, such as C-Guard, HP-Guard, V-Guard II, or E-Guard.

Each P-Guard module has its own processor, memory, and multi-drop address and is easily connected to any of our other modules via a 2-wire interconnecting cable.

The twelve channel module can also be used as a stand-alone device when connected to the user's PLC or DCS via a standard RS-485 com link. An optional alarm relay can provide remote annunciation.



### Data Acquisition

The twelve inputs can be any standard 4-20 mA or 1-5 VDC loop-powered module. Engineering units, scale factor, and alarm levels are user programmable and are stored in non-volatile memory on the module. Typical module inputs are:

Temperature for bearings, lube oil, jacket water, packing and suction/discharge gas

Pressure for lube oil, jacket water, and fuel gas

Vibration for cylinder, frame, bearings on auxiliary components, such as oil pumps, fans, and turbocharger

Rod Drop/Runout for rider band wear and piston motion

*Modular design allows mounting at the machine reducing installation costs.*

### Questions? Contact us today:

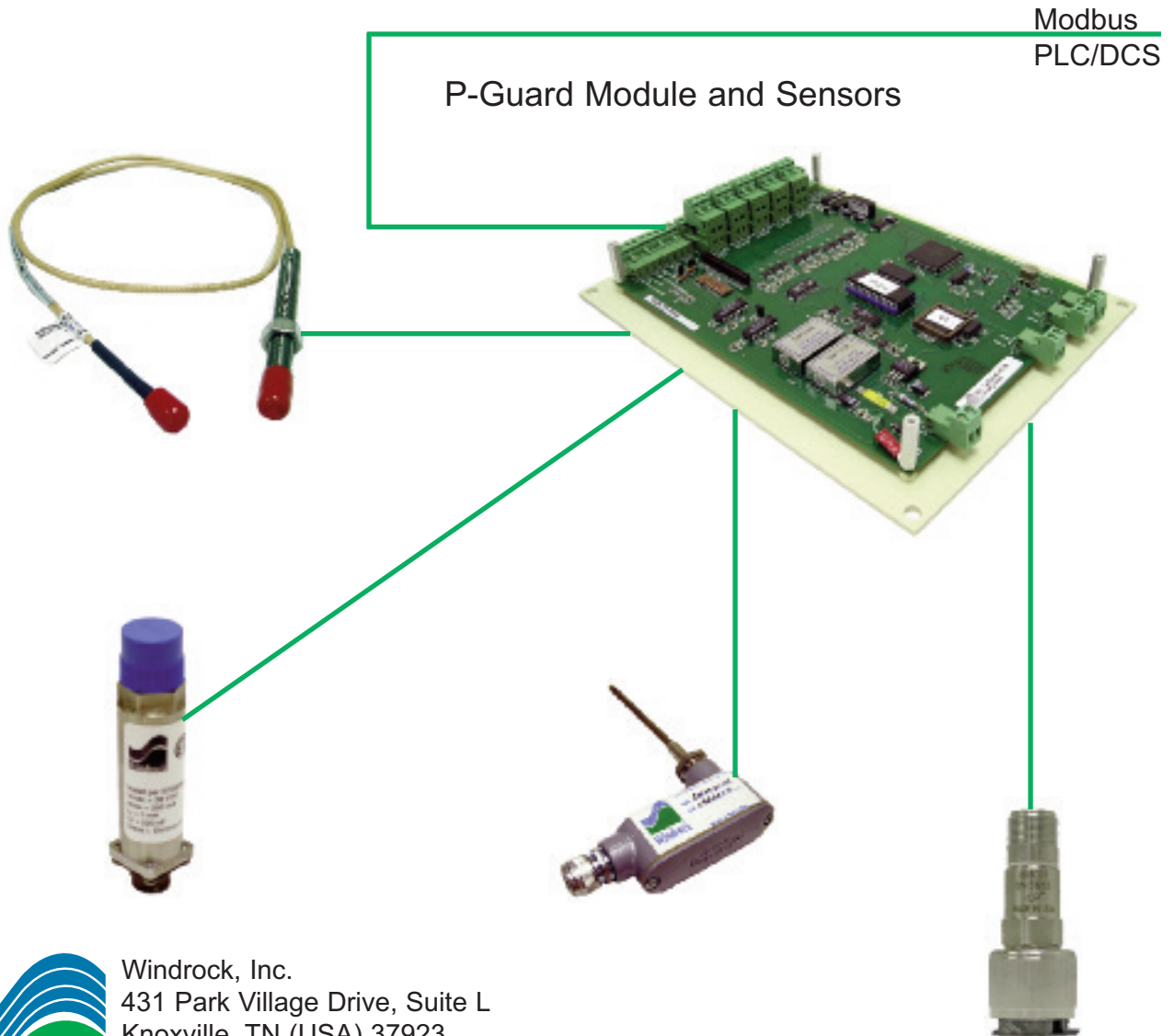
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## Specifications

Size:	8 inches high x 10 inches wide x 2 inches deep
Weight:	Less than 3 pounds
Number of Channels:	Twelve (12) 4-20mA or 1-5 VDC loop-powered inputs
Hazardous Area Ratings:	Suitable for Class I, Div 2, Groups A, B, C, D areas Sensors rated for Class I, Div 1, Groups A, B, C, D areas
Outputs:	PLC / DCS Interface - standard integer-based modbus RS-485 Analog - 4-20mA isolated, loop-powered, scalable (user defined range) Alarm Relay - Hermetically sealed, selectable N.O. or N.C. output logic
Power:	20 - 30 VDC, 250mA
Environmental Limits:	-25 degrees F to +150 degrees (operating); -40 degrees F to +185 degrees (storage) up to 95% humidity (non-condensing)



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