



Pc-PRO

Multi Channel Monitoring and Test System

Featured as a new generation in our series of in-process assembly monitoring and test systems, the Promess Pc-PRO gives you the industries most advanced, state-of-the-art monitoring technology for those assembly processes where only the full power of the Pc-PRO can satisfy the demands of your application.

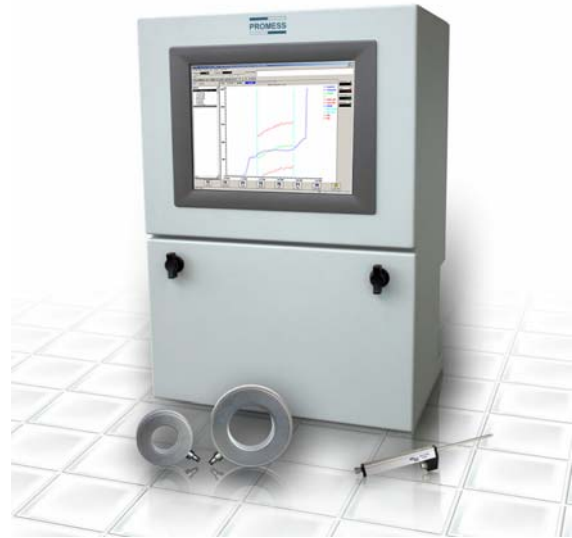
Using a “taught-in” master as the standard for acceptance, the PRO monitors, in real-time, both the force and position sensors mounted on the machine to measure the key attributes of each assembly produced. As they are measured, these attributes are analyzed and then compared to those of the “taught master”. Within microseconds, the Pc-PRO completes its comparative analysis of these attributes, determines the status of the assembly, sends a pass / fail output and flags any attribute identified as “different” from those of the “taught master”.

The Pc-PRO provides multi channel (non-synchronous) monitoring, built in data acquisition; data point storage, as well as the ability to monitor multiple windows. Utilizing different types of sensors, the system also has the unique capability to monitor a variety of additional processes, some of which include: torque, pressure, and rate of flow: air or fluid.

Promess provides the complete system: the electronics, software, sensors, as well as installation assistance. Promess will also assist in the design and selection of the sensors best suited for your specific application.

System Includes

- Monitoring electronics
- Sensors
 - Force, Position, Torque, etc.
- Cables
- Pre-amplifier
- PRO application software
- Integration and design assistance
- Training and calibration assistance



Features

- Multi Channel (non-synchronous)
- In-Process Quality Verification
- Part Traceability
- Data acquisition
- Advanced data analysis functionality:
 - Signature monitoring
 - Unlimited gauging points
 - Curve analysis tools
 - Integrated programming language with complete math functions
- Defined Database
- Data Export functions
- Fieldbus options
- Multiple part capability
- Multiple monitoring windows
- Easy to use programming and HMI software
- Auto calibration for sensors
- Diagnostics for setup and trouble shooting
- Two high speed 24 bit analog inputs per module
- One encoder input per module
- Flexible sensor inputs:
 - Force versus position
 - Torque versus angle, etc.
 - Position, force, pressure, torque, or flow

Pc-PRO Technical Data

General

- Supply Voltage: 110-240 VAC, 50-60 Hz, 4.0 A
- Operating Temperature: 10 to 48 °C (50 to 118 °F)
- Dimensions (H x W x D): 599 x 419 x 305 mm, (23.60 x 16.50 x 12.00 in)
- RS232 Serial Port: 1
- USB Port: 2
- Ethernet Port: 10/100 Base-T, RJ45 connector
- Mini-keyboard with trackball
- 12.1" Color TFT-LCD touch screen
- FieldBus Interface Module (optional): Profibus
- Expanded Input/Output Module (optional): 8 Inputs and 8 Outputs

Analog Inputs (per PRO Main module, expandable by additional PRO Main modules)

- Number of Analog Inputs: 2
- Analog Input Ranges: ± 10 V, ± 40 mV
- Sampling frequency: 10 KHz per channel
- Resolution of A/D converter: 24 Bit
- Excitation voltage: ± 5 VDC

Encoder Input (per PRO Main module, expandable by additional PRO Main modules)

- Transducer Type: Linear scales or rotary encoders
- Input Voltage: 5 V TTL
- Signal Type: Quadrature
- Supply Voltage: +5 VDC / 150 mA maximum

Digital Inputs (per PRO Main module, expandable by additional PRO Main modules)

- Number of Inputs: 4 standard, optically isolated
12 with Expanded I/O Module
 - Input Voltage: 24 VDC
 - Input Current: 8 mA at 24 VDC
- Note: Expanded Digital I/O available

Digital Outputs (per PRO Main module, expandable by additional PRO Main modules)

- Number of Outputs: 4 standard, optically isolated
12 with Expanded I/O Module
 - Nominal Voltage: 24 VDC, external power supply
 - Output Current: 100 mA maximum
- Note: Expanded Digital I/O available

Enclosure Dimensions

