

MiniPRO

Monitoring for Assembly and Test Applications

The Promess MiniPRO Monitoring System is a stand alone process monitoring and test device. The PRO is powerful yet simple to use, making it perfect for monitoring assembly applications such as press-fit, staking, crimping, and riveting, yet powerful enough to tackle the more demanding test applications where accurate high speed data collection and advanced analysis are required.

The PRO system allows the user to create monitoring and test programs for monitoring and recording independent measurements with functional relationships like force versus position. The Promess application software, which is included with the system, is used for the configuration of the program, the visualization of the process data, and the data collection. The process data can be exported for further analysis using standard statistical packages. The intuitive PRO software guides you quickly through setup menus, monitoring and data display screens.

The MiniPRO system allows for the connection of a large range of sensors to monitor a variety of processes, some of which include force, distance, torque, pressure, and flow.

System Includes

- PRO HMI
- PRO electronics
- Enclosure
- Sensors
 - Force, Position, Torque, etc.
- Cables
- Preamplifier
- PRO application software
- Integration and design assistance
- Training and calibration assistance



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.

Features

- In-Process Quality Verification
- Part Traceability
- Two high speed 24 bit analog inputs per module
- One encoder input per module
- Easy to use programming and HMI software
- 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
- Auto calibration for sensors
- Diagnostics for setup and troubleshooting



MiniPRO 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): 400 x 300 x 210 mm, (15.74 x 11.81 x 8.27 in)
- RS232 Serial Port: 1
- USB Port: 2
- Ethernet Port: 10/100 Base-T, RJ45 connector
- 10.1" Color LCD touch screen

Analog Inputs

- 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

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

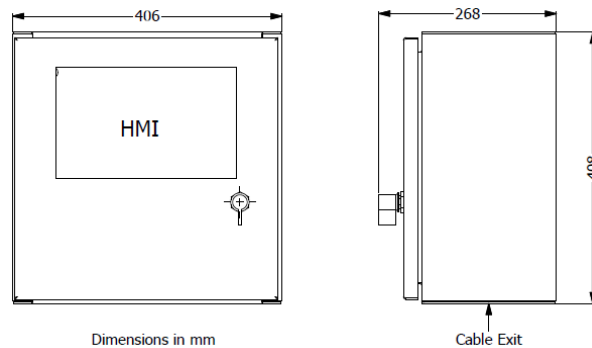
Digital Inputs

- 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

- 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





Option Modules Information and Technical Data

Fieldbus Module

The Fieldbus Module allows for connection to a PLC with the following fieldbuses:

- Ethernet I/P
- Devicenet
- ProfiBus
- ProfiNet
- Modbus TCP



Expanded I/O Module

The Expanded I/O Module can be used when additional discrete inputs and outputs are needed.

Digital Inputs

- Number of Inputs: 8 standard, optically isolated
- Input Voltage: 24 VDC
- Input Current: 8 mA at 24 VDC

Digital Outputs

- Number of Outputs: 8 standard, optically isolated
- Nominal Voltage: 24 VDC, external power supply
- Output Current: 100 mA maximum



Dual Encoder Module

The Dual Encoder Module allows for two additional encoder inputs. The inputs can be used for linear or rotational encoder feedback.

