Assembly Monitoring Systems

100% In-Process Inspection of Assembled Parts
- Press Fit
- Crimping
- Staking
- Riveting
- Testing
**The Promess Method**

The Promess Monitoring System allows for the in-process monitoring of your assembly and test operations. The Promess Monitoring System will collect, graph, and store the force versus position signature curve for the process being monitored. The system also allows for upper and lower limits to be placed around the process signature to detect a good and bad part. Other functions within the system allow for the gauging of defined features, like final position and force. Using the Expression function and other commands unique to the Promess software, the user can build algorithms and tests required for their application.

Promess’ monitoring strategy can detect:
- tight fit
- loose fit
- no part present
- full depth exceeded
- wrong part
- part misaligned

**Promess’ Proven Assembly Monitoring Strategy**

![Monitoring Applications](image)

**Monitoring Applications**

- **Pressing**
- **Testing**
- **Forming/ Shaping**
- **Bending**
- **Riveting**
- **Stamping**
Monitoring System Configuration

Fieldbus Options:
- EtherNet I/P
- ProfiNet
- ProfiBus
- ModBus TCP

PC

Data Editor
Data Collector
Data Viewer

PLC

Fieldbus

PRO Main Module
Fieldbus

Piezo Load Cell
Strain Gage Load Cell
Torque Transducer

Analog Position Transducer
Digital Position Transducer
Angular Encoder
Promess is recognized as a leading U.S. manufacturer of highly adaptive monitoring and motion control systems used by companies around the world to assemble and test their products.

Promess Monitoring

Features & Benefits:
• In-process, on-line quality verification
• Teachable high & low signature limits
• Advance math functions
• High sampling rate
• Retrofittable to existing machines
• Part traceability
• Backed by Promess support 24/7/365

Promess Provides:
• Monitoring electronics
• Force transducer
• Position transducer
• Installation assistance
• Training
• Data acquisition

Promess Incorporated

Cloning the perfect part