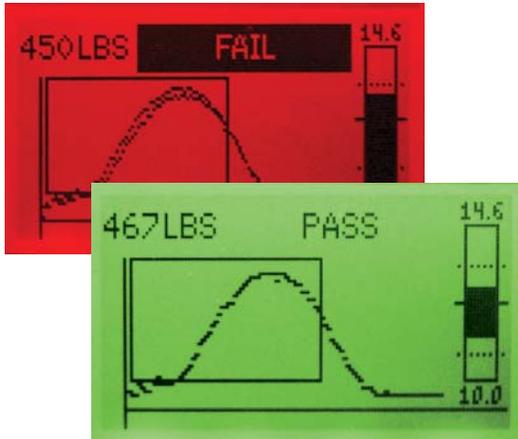**MERCURY**
ELECTRONICS PRIVATE LIMITED

Crimp Defect Detection for Bench Presses

A cost-effective, robust crimp force monitor that works with virtually all bench wire processing machines

CFM1000

Crimp Force Monitoring

Monitoring your wire crimping process and knowing when manufacturing conditions are changing is critical in detecting errors, and eliminating unnecessary scrap.

High performing, simple to use and cost-effective.

Proven Wire Crimp Analysis
- The system captures the crimp force signature over time, and compares this signature to the reference or "learned" signature using OES's patented CDA algorithm
- Signature analysis of the region within the "box" discriminates between normal and abnormal cycle signatures that identify a defective crimp

Machine Control
- Output relays can be configured to control the press machine
- Interface with chopper equipment

Operator Friendly Design
- Menu-driven interface supports quick setup
- Multicolor graphic display of signature, inspection region, and tolerance bar relative to control limits
- Two levels of defect detection with flashing amber display for suspect crimps and bright red display for crimp defects
- Simple-to-use "Learn" function after setup for a new process
- Audible alert following a crimp defect
- Production Counter maintains a running total of good crimps, suspect crimps and defective crimps
- Password controls for supervisory access to configuration routines and tolerance controls
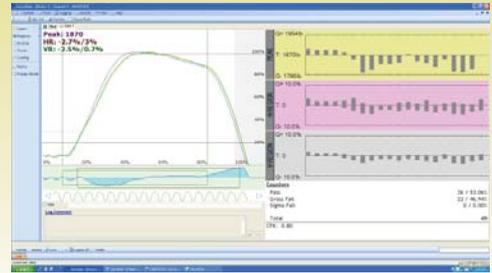
Quick Start Setup
- The menu-driven, interface makes setup simple and fast

Monitoring and Data logging
- *ForceView* software running on a PC interfaces with the CFM1000 to support capability studies, setup, monitoring and analyzing process trends relative to control tolerances, and data logging.
- Immediately color graphs of crimp process signatures are displayed on *ForceView for Windows* showing any trend relative to configurable upper and lower tolerances.

FORCEView™

ForceView for Windows enables operators to set-up and operate the defect detection system. *ForceView* contains a powerful set of graphical signature analysis tools so you can track production trends and process variations based on preset tolerances. It also captures the crimp process signature of every crimp for 100% traceability.

Machine Applications

Machine Applications	
Bench Press - OEM	✔
Bench Press - Retrofit	✔

Technical Specs

Supply Voltage	24VDC @ 350mA External power supply included or optionally powered from press via interface cable
Communications	1 USB 2.0
Sensor Inputs	1
Inputs	1
Outputs	2
Dimensions	89 x 147 x 25 mm 3.5 x 5.6 x 1.0 inch

CFM1000 package typically includes:

- CFM1000 Unit
- *ForceView for Windows* Software
- Sensor and connecting cable
- Electrical interface cable
- Universal, flexible mounting bracket

ISO 9001 2008
FM 64157

FORCEView™