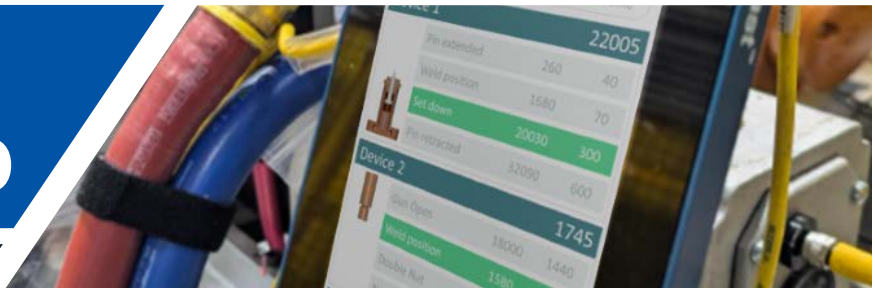
VeriFast™ MicroView 4.0



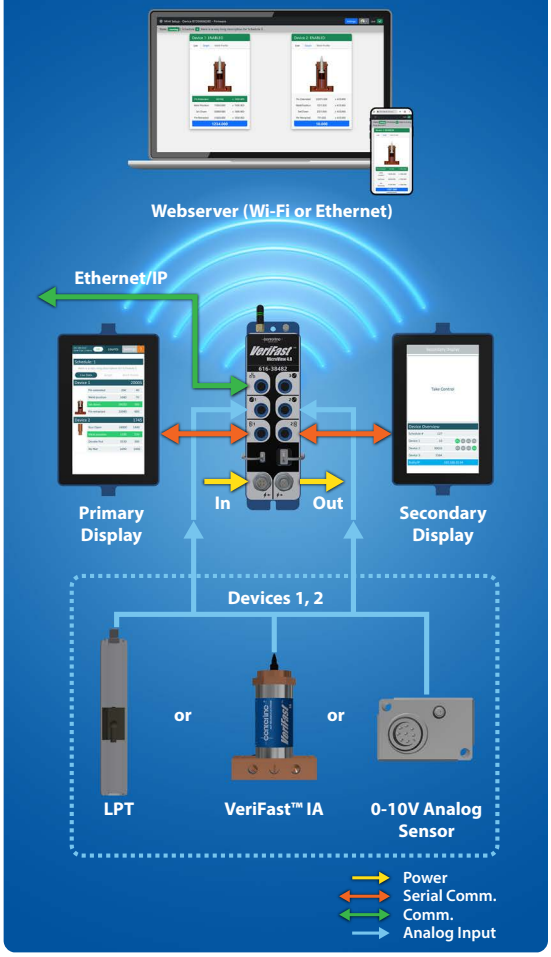
> **We specify CenterLine VeriFast Smart Pin Sensing systems on all our projection welding equipment. We cannot afford the cost of poor quality. If the fastener process parameters are not in the tolerance band, the VeriFast™ System will prevent the weld from proceeding.**
>
> *Vice President of Manufacturing, Global Automotive Tier 1 Part Supplier*

The VeriFast™ MicroView 4.0 process monitor is a self-contained fastener detection system. You simply configure the device using the seven-inch display or a browser via Wi-Fi/Ethernet. Users teach the weld proceed and weld complete setpoints and tolerance bands. The MicroView 4.0 supports two displays; one can be mounted on the machine and the other on the cell fence for remote teaching and monitoring. It has two levels of password protection: Level 1 teaching and Level 2 configuration to prevent untrained personnel from tampering with the process monitoring. The MicroView 4.0 has integrated Ethernet IP communication, allowing the machine/cell PLC to monitor the process variables to capture faults and create alerts. Installation of the IP67 rated block is simple, connect a smart pin sensing weld body and the backup electrode LPT analog devices, 24VDC power and Ethernet IP communication cable. No fastener detection PLC logic or HMI screen development is required.

Main Features

- **Self-Contained Process Monitor:** No fastener detection PLC logic or HMI screen development is required.
- **Integrated Ethernet Communication:** The machine/cell PLC has access to process variables. i.e. set points and tolerance bands.
- **Intuitive High-Resolution Capacitive 7" Touch Display:** For configuration and monitoring. The display has an integrated menu to guide the operator through the configuration.
- **Supports Two Displays:** One display can be mounted on the machine, while a second display can be positioned along the fence line. Alternatively, configuration can be managed from a PC or phone using a web browser via Wi-Fi or Ethernet.
- **127 Selectable Schedules:** Designed to support machines that process many different workpieces.
- **Two Analog Input Channels:** 0-10V Analog inputs for a smart pin sensing weld body and the backup electrode LPT (16-bit resolution).
- **Compact IP67 Rated Enclosure:** The potted enclosure is resistant to vibration and contamination. M12 Connectors save installation time.
- **Sampling Rate:** 1000 sps (samples per second) per channel. The weld profile can be viewed on the display or on the webserver.
- **Weld Event Storage:** Over 500K readings per channel (11 weeks at 45,360 readings per week).
- **Real-Time Clock:** For weld event data analysis.
- **USB Port:** For downloading weld data to an external USB storage.
- **Scalable and Selectable Values:** Choose from counts, mm, and inches.
- **Multi-Language Support:** English, Spanish, and Portuguese.

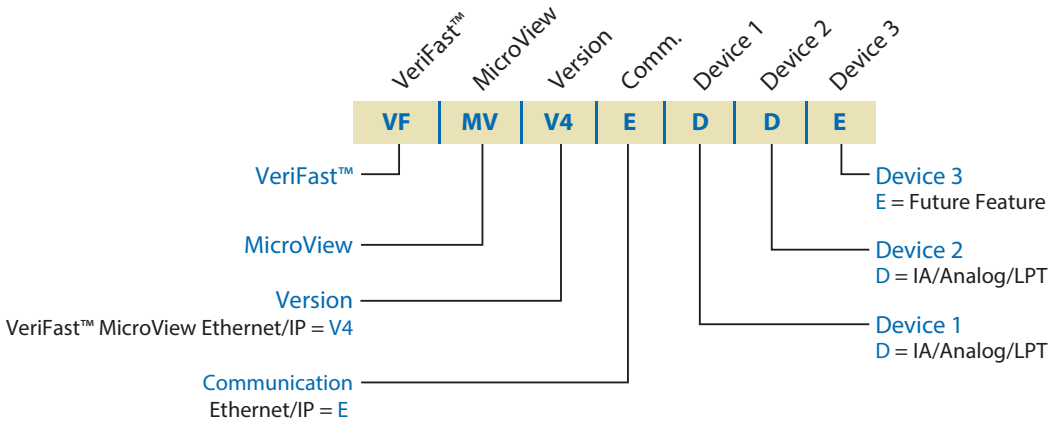
VeriFast™ MicroView 4.0 Connection Diagram



Reference Screen Guide

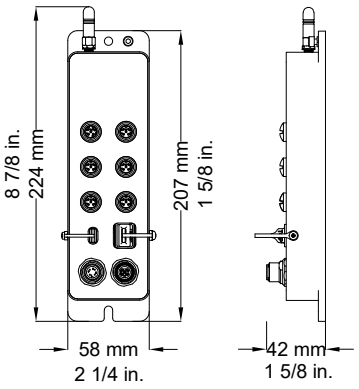
Our comprehensive Reference Screen Guide ensures that every operator can easily understand and utilize all features of the equipment, from setup to advanced functions. The new step-by-step guide integrated in the equipment provides real-time assistance as you navigate through its functionalities, helping operators to quickly master the controls and maximize productivity.

Part Numbering System



Technical Specifications

Parameter	Value
Power:	
Input Voltage/Current	18 VDC – 30 VDC, 1A max @ 24 VDC
Communication:	
Field Protocol	Ethernet/IP
Wireless 2.4GHz	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n WPA/WPA2 Security
Environmental:	
Operating Temperature Range	-20°C to 50°C
Enclosure Size	207mm H x 58mm W x 42mm D (8-1/8" H x 2-1/4" W x 1-5/8")



In North America, the VeriFast™ System monitors the installation of over 12,000,000 nuts a day.

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