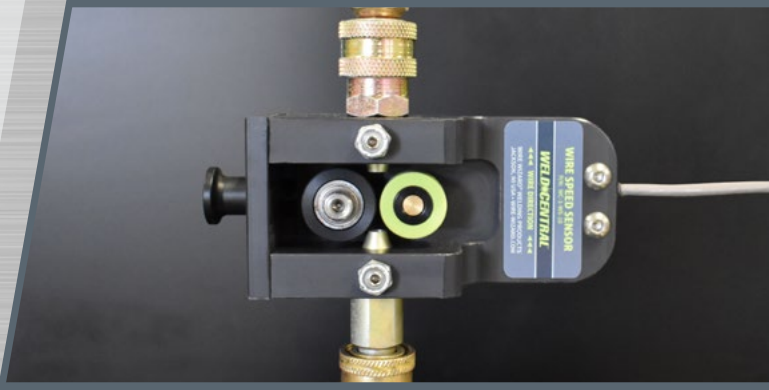
WIRE WIZARD
WELDING PRODUCTS

# WIRE TRACKER™ DIGITAL WIRE MONITOR

## ACCURATE WIRE TRACKING & MONITORING IN ONE DEVICE

The **Wire Tracker™ Digital Wire Monitor** provides an easy way to monitor and track wire in robotic or semi-automatic MIG welding applications. The device may be mounted in-line for 24/7 monitoring or used as a portable unit to check wire usage per weld or wire feed speed. It provides a simple and accurate method for monitoring and totalizing wire consumption, or measurement and verification of wire feed speed.


WIRE TRACKER™

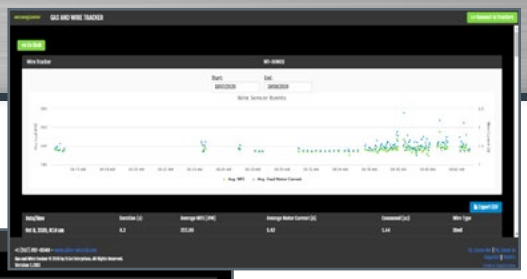



WIRE SPEED SENSOR

- **Tracks and totalizes wire consumption** — an easy way to determine wire usage per weld and amount of time a wire package will last
- Install in-line for constant monitoring or use as a portable device to check and verify wire feed speed and wire usage (rechargeable li-ion battery included)
- Includes **Wire Speed Sensor** to monitor wire feed speed (WFS) and wire consumption
- Optional **Motor Current Sensor** monitors the workload on the wire feeder, which can detect and send alerts on wire feeding issues
- Monitors wire remaining and **sends alert when wire package is low**
- Exported data may be used to **track total wire feed time** to help determine welding productivity
- Documents historical data for each weld, including: Timestamp, Duration (time of active wire feed), Average wire feed speed (WFS), and Wire Consumed. Data is downloadable via USB connection to a PC.
- PLC connectivity allows automated alert functions
- Compatible with MIG, SAW, Laser Welding, GTAW (hot or cold wire) and additive manufacturing with wire, using either ferrous or non-ferrous wires

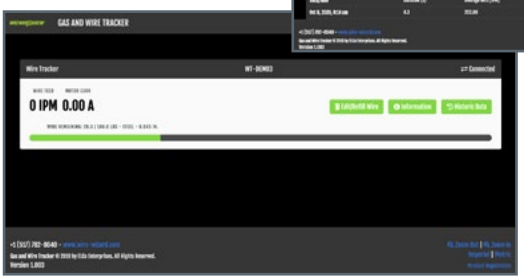
## SOFTWARE FEATURES

- View and export time-stamped wire usage data (per weld), including duration of wire feed, wire feed speed (in IPM or MM/SEC), wire consumed and wire remaining
- Edit or refill wire
- Quickly view the wire remaining
- Options for measurement units in Imperial (US) or Metric
- Ability to connect to multiple Wire Trackers at once




*Wire Tracker screen with average wire feed speed chart and motor current (if applicable)*

*Chart and Wire Refill screen*

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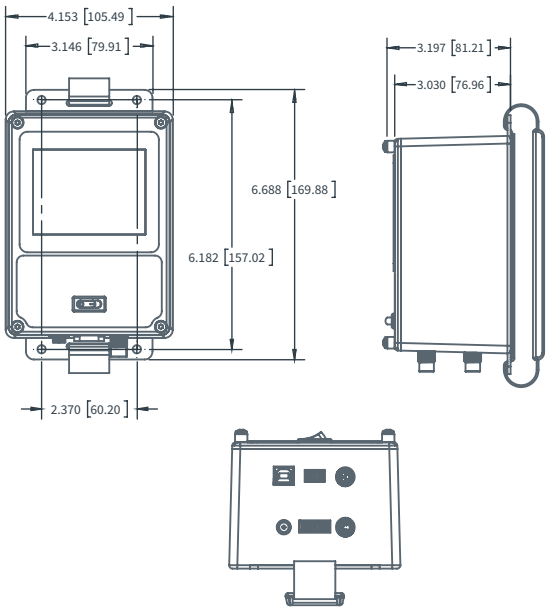
# SPECIFICATIONS

## HARDWARE

- Dimensions: 7" (178 mm) x 5.25" (134 mm) x 3.25" (83 mm)
- Weight: 2.2 lbs (1 kg)
- Input Power: 24 VDC
  (Type A-style plug; 100 – 240 VAC required for power supply)
- Power Consumption: 2 A maximum
- 3.5" (89 mm) LED Touch Screen
- Internal memory for up to 8,000 events
- USB connection for exporting data via PC connection
- Four (4) programmable outputs
- Modbus RTU interface for PLC
- Normally-open relay contacts for stacklight or PLC

### DIMENSIONS




## WIRE FEED SENSOR

*Wire Feed Sensor*

- Range: 0 – 900 IPM
- Weight: 0.93 lbs (420 g)
- Dimensions: width: 5.25" (133 mm);
  height: 5.25" (133 mm); depth: 2.25" (57 mm)
- Input Power: 5 VDC
- Output Signal: 0 – 5 VDC
- Accuracy: +/- 3% (Full Scale)
- Wire Size Restrictions: Accepts up to 0.078 (2 mm) wire

## MOTOR CURRENT SENSOR *(Optional Add-on)*

*Motor Current Sensor*

- Range: 0 – 5 A
- Weight: 0.29 lbs (128 g)
- Dimensions:
  - Sensor: width: 1" (26 mm);
    height: 1.75" ( 44 mm); depth: 1.5" (38 mm)
  - Connector Junction: width: 2.75" (70 mm);
    height: 3.25" (82 mm); depth 1.25" (30 mm)
- Cable Length: 11" (280 mm)
- Input Power: 5 VDC
- Output Signal: 0 – 5 VDC
- Accuracy: +/- 2% (Full Scale)

### SOFTWARE REQUIREMENTS

- Microsoft Windows 7 or newer with latest updates
- At least one (1) USB 2.0 or higher port
- At least 2 GB RAM
- 1 GB free disk space

| Part No. | Description |
|---|---|
| WC-1-WS-S | Wire Tracker™ Digital Wire Monitor – includes Wire Feed Sensor |
| WC-1-MS | Add-on Feed Motor Current Sensor for monitoring and tracking of wire delivery issues |
| WC-1-WS-18-RECAL | Wire Sensor Calibration Service (yearly recalibration recommended) |
| WC-1-MS-RECAL | Motor Current Sensor Calibration Service (yearly recalibration recommended) |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