

## 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.

- ▶ **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



WIRE TRACKER™

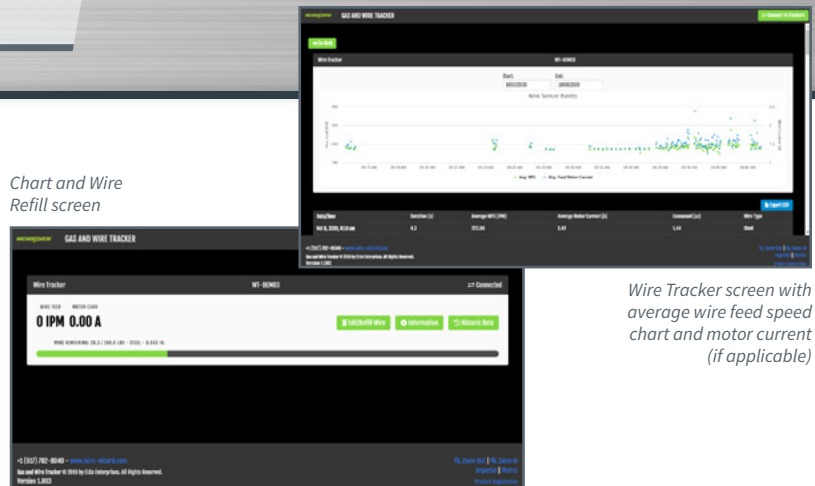


WIRE SPEED SENSOR

## 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

Chart and Wire Refill screen



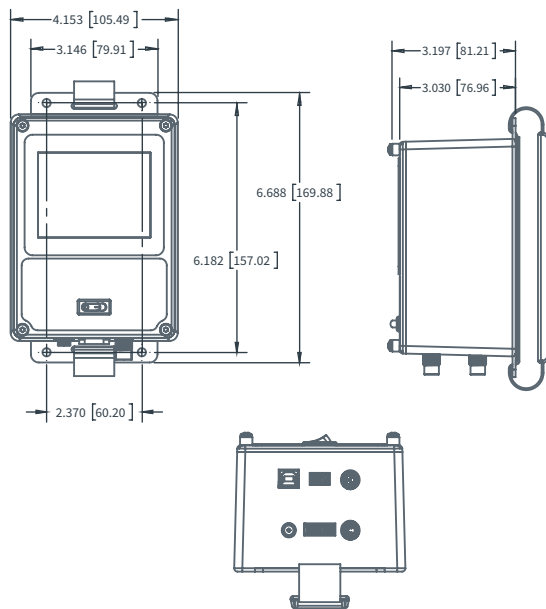
Wire Tracker screen with average wire feed speed chart and motor current (if applicable)

# 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

- ▶ 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



Wire Feed Sensor

## MOTOR CURRENT SENSOR (Optional Add-on)

- ▶ 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)



Motor Current Sensor

## 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)