

Insight ArcAgent™



Premium data acquisition tools that enable both Insight Core™ and Insight Centerpoint™ solutions to integrate with any brand of welding power source.

ArcAgent offers flexible options from basic to advanced in four different models.



ArcAgent Manual with Part Tracking™ Controls

ArcAgent Manual with extended capability

ArcAgent Auto

NEW! ArcAgent for Insight Core™

Insight ArcAgent features

Welding modes supported: GMAW, GMAW-P, GTAW, FCAW, SMAW, SAW, PAW, ESW, MIAB, CAW. (Not designed for resistance weld monitoring.)

Sensors supported: Measures and monitors four primary welding parameters: amps, volts, wire feed speed, gas flow.

Weld fault handling (Centerpoint™ version only): Fault notifications via stack light, torch disable*, digital I/O, EtherNet/IP*, DeviceNet*. Fault reset via key switch, digital I/O, EtherNet/IP*, DeviceNet* or through Insight Centerpoint (password, RFID or barcode).

Part Tracking interfaces (Centerpoint™ version only): Required Part Tracking controls via front panel*, digital I/O, EtherNet/IP* or DeviceNet*.

Human-machine interface (HMI) via Insight Centerpoint*: Fully supported by Insight Centerpoint when requirements call for data collection or advanced user interface. Basic setup and functionality does not require Insight Centerpoint software.

Common use cases: Arc-on time and productivity, operator performance, weld parameter verification, eliminate over/under welding, missing and incomplete weld detection*, weld process monitoring and alarming, and governing of weld sequence utilizing Insight Centerpoint* (Part Tracking and WorkFlow™).

*Available on select models.

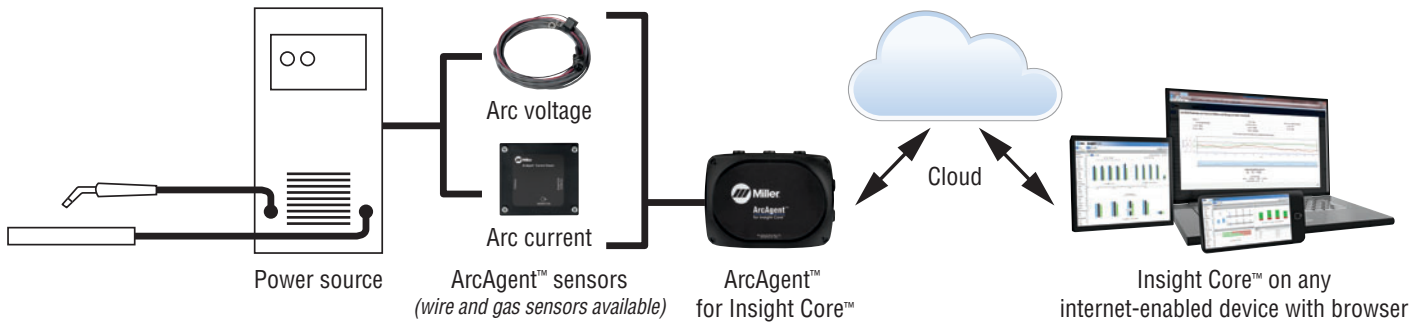


Miller Electric Mfg. LLC
An ITW Welding Company
1635 West Spencer Street
P.O. Box 1079
Appleton, WI 54912-1079 USA

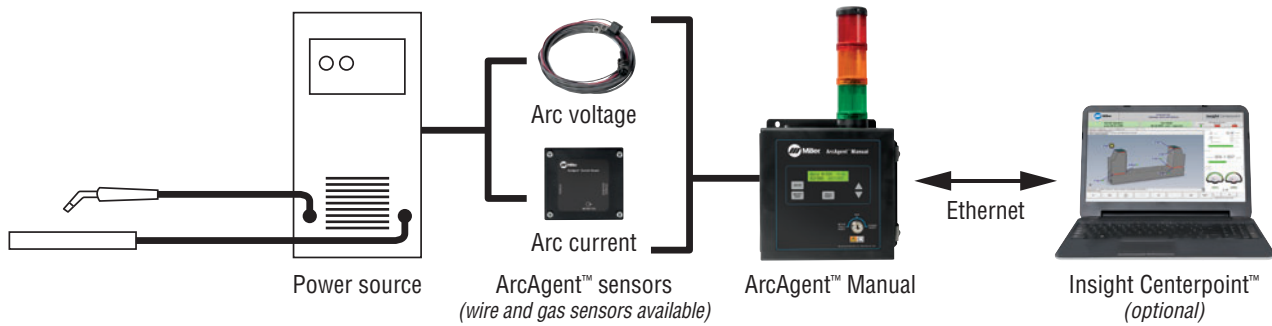
Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

MillerWelds.com
f t y i n

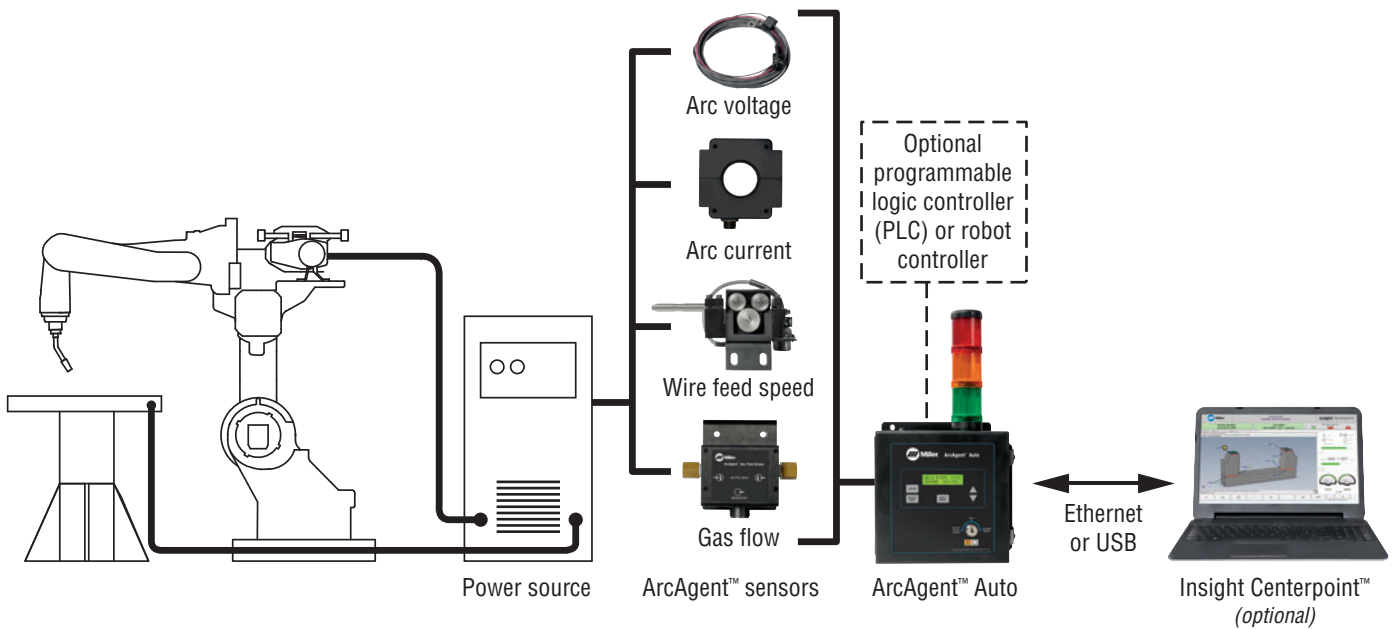
Typical ArcAgent for Insight Core Installation



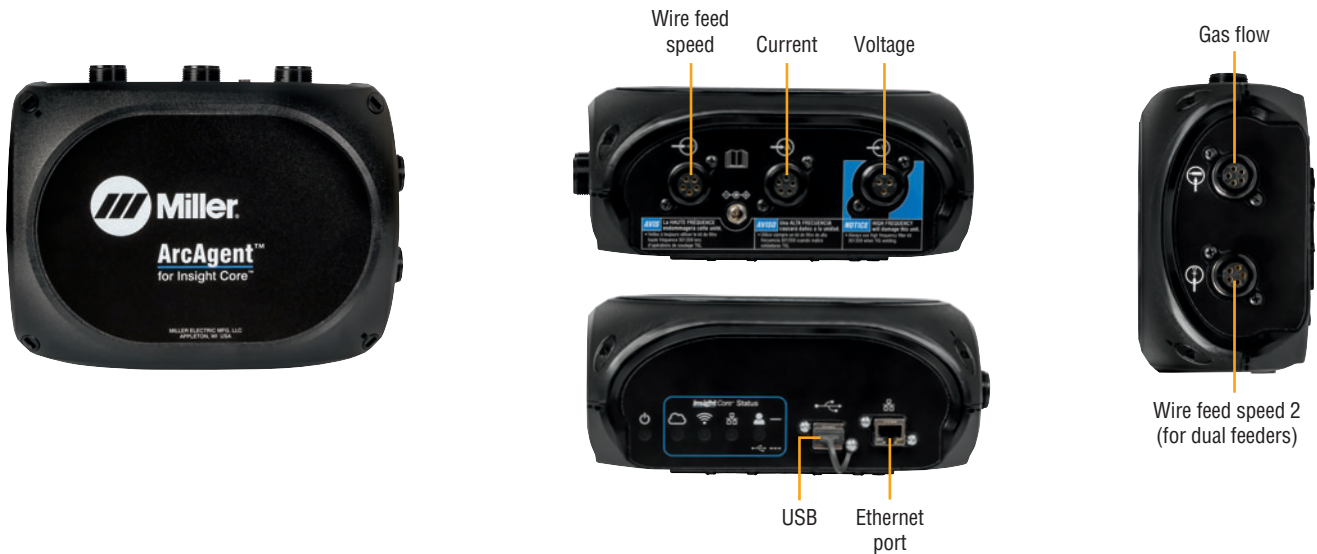
Typical Manual Welding Installation



Typical Automation Welding Installation



ArcAgent™ for Insight Core™



Standard Features

Hardware

- Monitor (external sensors required)
 - Arc voltage
 - Arc current
 - Wire feed speed
 - Gas flow
 - Arc on time (by operator or device)
 - Average wire feed speed
 - Average deposition

Technical

- IP21 rated enclosure
- 2.4 GHz and 5 GHz Wi-Fi network connections
- RJ-45 Ethernet network connection
- USB port for updates/configuration/operator ID

Designed to enable you to see your entire fleet of welders on one productivity dashboard. The ArcAgent for Insight core uses ArcAgent external sensors allowing any welding power source to be compatible with Insight Core. Your welding productivity data can be viewed securely in any welding browser on any internet connected device.

Product Dimensions (H x W x D)

3.75 x 9.25 x 7 in. (92 x 235 x 178 mm)

Net Weight

2.15 lb (1 kg)

Max. Data Sample Rates

Volts: 10 Hz
 Amps: 10 Hz
 Wire feed speed: 10 Hz
 Gas flow: 10 Hz



ArcAgent™ Manual Series (For use in manual welding applications.)

ArcAgent Manual with Part Tracking controls



+24 V solenoid control

Centerpoint Ethernet port

ArcAgent Manual with extended capability



Insight torch, limit switch or proximity sensor input

Centerpoint Ethernet port

USB

Common side panel



Current

Wire feed speed

Voltage

Gas flow

Standard Features

Hardware

- Monitor (external sensors required)
 - Arc voltage
 - Arc current
 - Wire feed speed
 - Gas flow
 - Total arc time
 - Total wire used
 - Total gas used
 - Total clamp time
 - Average current
 - Average wire feed speed
 - Deposition
 - Deposition rate
- External interfaces to cell control
- Part Tracking™ control

Technical

- Rugged and sealed enclosure
- Front panel user interface
- Two line x 16 character illuminated LCD display
- Security key for authorized setup/reset
- Ethernet PC communication via RJ-45
- Stack light for quick status indication
- Weld and part fault outputs available

Software

- Insight Centerpoint™ capabilities (license must be purchased):
- Note: See Insight Centerpoint literature for more detail.*

When used with or without Insight Centerpoint™ software, helps weld operator ensure that a weldment is not missing any welds and that those welds were completed within specification. There are two models of the ArcAgent Manual available.

1. ArcAgent Manual with Part Tracking™ controls

Includes all standard features (above) plus:

- 5 digital inputs / 3 digital outputs for PLC integration
- +24 VDC connection for part fixturing control
- Front panel controls for use with Part Tracking feature: part cycle start/end and ignore weld

Note: Compatible with Insight Centerpoint. See page 6. Does not support AC welding.

2. ArcAgent Manual with extended capability

Includes all standard features (above) plus:

- USB-PC communication
- Travel speed/temperature acquisition capability via use of auxiliary sensor module
- Increased selectable data sampling rates of 1, 3 and 5 kHz (volts and amps)

Note: Compatible with Insight Centerpoint. See page 6.

Product Dimensions (H x W x D)

9.5 x 9 x 5 in. (241.2 x 228.6 x 127 mm)

Net Weight

11 lb. (5 kg)

Max. Data Sample Rates

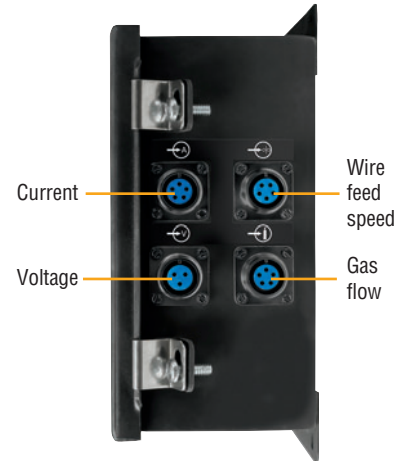
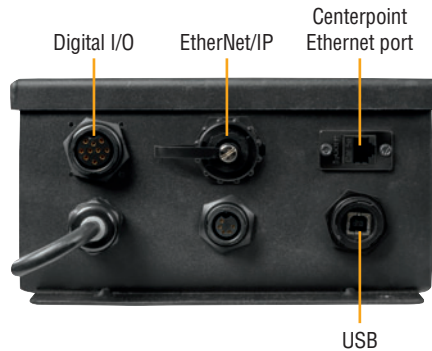
Manual with Part Tracking controls

Volts: 10 Hz
Amps: 10 Hz
Wire feed speed: 10 Hz
Gas flow: 10 Hz

Manual with extended capability

Volts: 5 kHz
Amps: 5 kHz
Wire feed speed: 100 Hz
Gas flow: 100 Hz

ArcAgent™ Auto (For use in automated welding applications.)



Standard Features

Hardware

- Monitor (external sensors required)
 - Arc voltage
 - Arc current
 - Wire feed speed
 - Gas flow
 - Total arc time
 - Total wire used
 - Total gas used
 - Total clamp time
 - Average current
 - Average wire feed speed
 - Deposition
 - Deposition rate
- External interfaces to cell control
- Part Tracking™ control

Technical

- Rugged and sealed enclosure
- Front panel user interface
- Two line x 16 character illuminated LCD display
- Security key for authorized setup/reset
- Ethernet PC communication via RJ-45
- Stack light for quick status indication
- Weld and part fault outputs available

Software

- Insight Centerpoint™ capabilities (license must be purchased):
- Note: See Insight Centerpoint literature for more detail.*

Designed to provide robust, off-the-shelf real-time monitoring of weld count, weld length (duration), process set-point parameters (voltage, current, wire feed, gas flow) total arc time, total wire used, and total clamp time.

Includes all standard features (above) plus:

- 8 digital inputs / 8 digital outputs
- EtherNet/IP communication (32 bytes in/32 bytes out)
- USB-PC communication
- Selectable sampling rates of 1, 3 and 5 kHz (volts and amps)

Note: Compatible with Insight Centerpoint. See page 6.

Product Dimensions (H x W x D)

9.5 x 9 x 5 in. (241.2 x 228.6 x 127 mm)

Net Weight

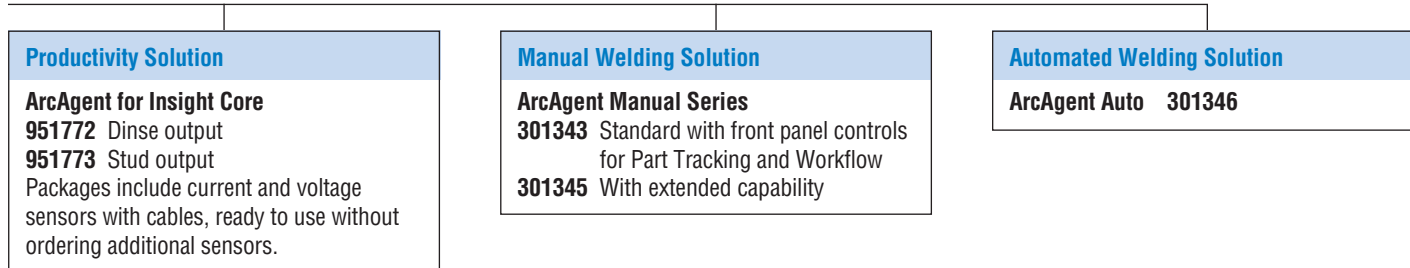
11 lb. (5 kg)

Max. Data Sample Rates

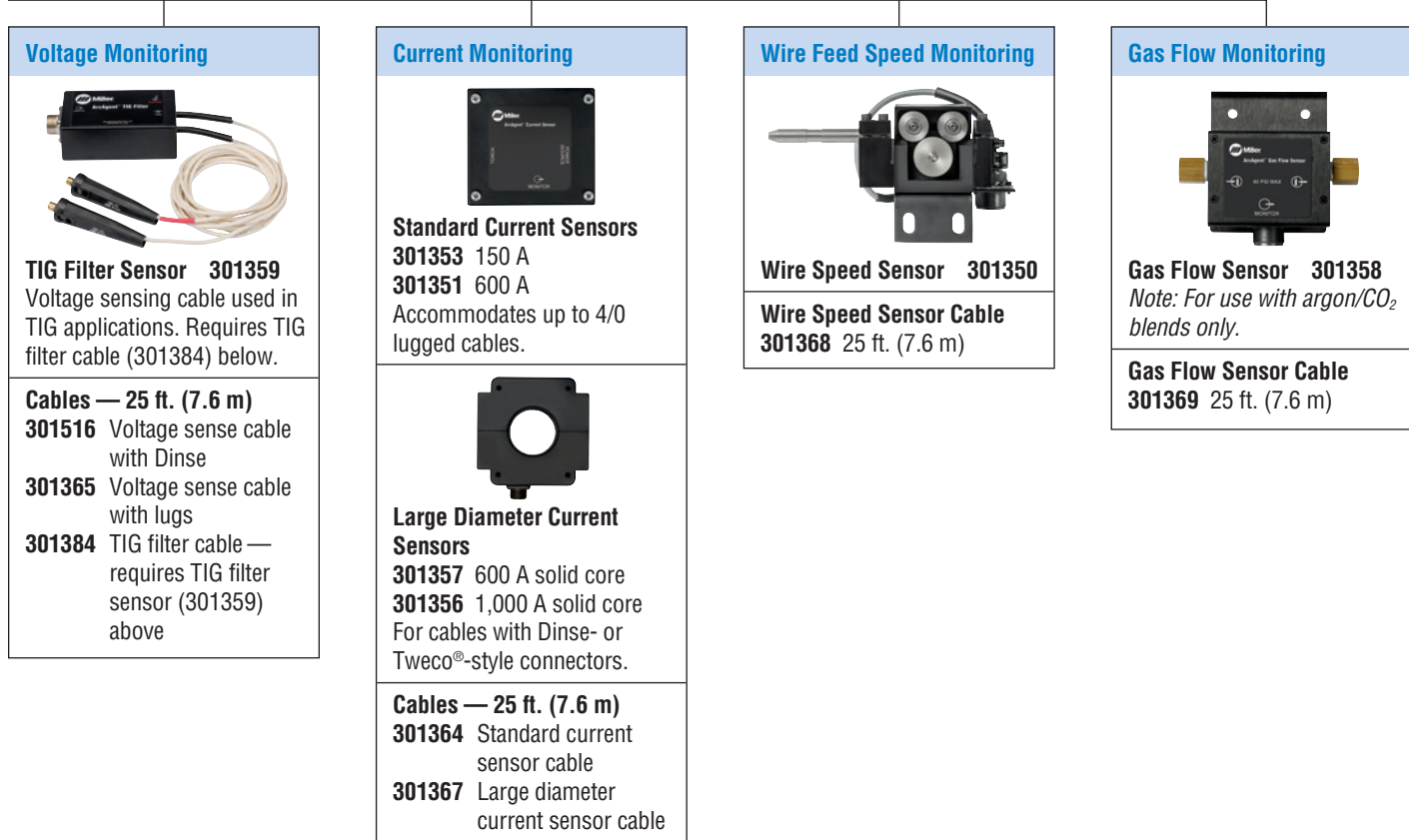
Volts: 5 kHz
 Amps: 5 kHz
 Wire feed speed: 100 Hz
 Gas flow: 100 Hz

ArcAgent™ System Configuration Guide

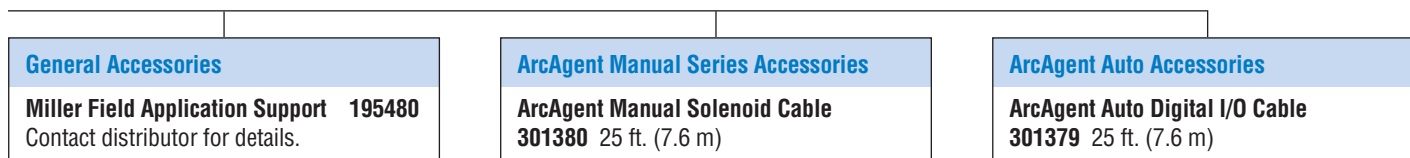
1. What Solution is Needed?



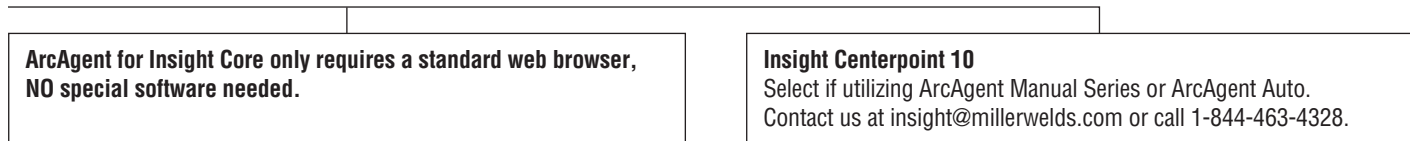
2. What is Being Monitored?



3. Additional Accessories



4. What Software is Needed?



Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
ArcAgent™ for Insight Core™	951772	Dinse output		
	951773	Stud output		
ArcAgent™ Manual Series	301343	Standard with front panel controls to operate Part Tracking and WorkFlow		
	301345	With extended capability		
ArcAgent™ Auto	301346	For automated welding applications		
Sensors				
Voltage Sensors		See page 6		
Current Sensors		See page 6		
Wire Speed Sensor	301350	See page 6		
Gas Flow Sensor	301358	See page 6		
Cables				
		See page 6		
Software				
Insight Centerpoint™ 10		Contact us at insight@millervelds.com or call 1-844-463-4328		
Insight Reporter™	300709	Management reporting system client software		
Insight Reporter™ SQL Database	300710	Management reporting system database software (one required per server)		
Miller Field Application Support	195480	Contact distributor for details		

Date:

Total Quoted Price:

Distributed by:

