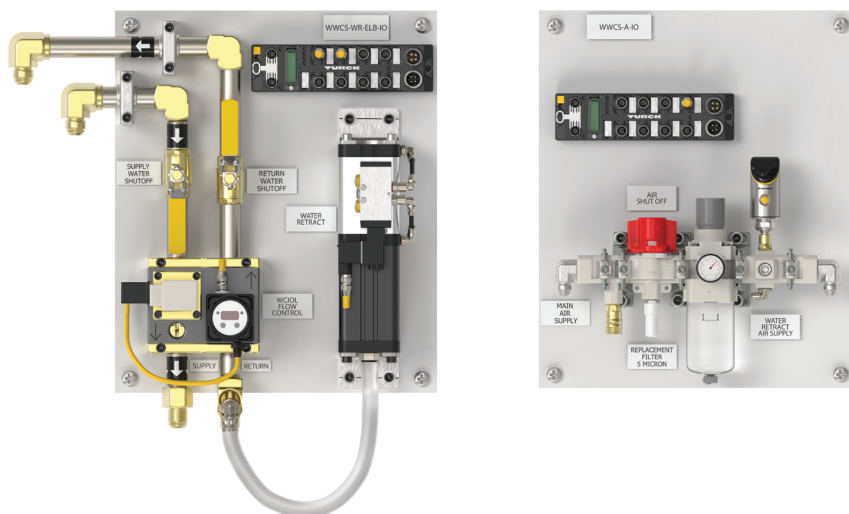


Modular Weld Water Control System

Modular Pre-Engineered Solutions for Robotic Welding Cells



Technical data and part number key

(W)

Water Flow meter, Water Temperature Sensor, Automated Water Shut Off Solenoid

See Turck WCIOL-6GPM-75NPT-H1151 (100039258) for current technical data.

Piping: 3/4 inch Galvanized

Fittings and Valves: Brass or Stainless Steel

Process Connections: 37° flared

Compatible with: Brass, PVDF, and Viton

Process Water: Can be clean or dirty, but should not contain long strands or a significant level of abrasive solids; can include up to 50% glycols as typically found in the auto industry

(R)

Water Retract Module

250 ml of retract capacity

Rated for 14 BAR max or greater

(IO)

IO-Link Master

See Turck TBEN-L4-8IOL (6814082) for current technical data.

(A)

Air Filter Regulator

Left to Right configuration

1/2 inch system

0-10 bar pressure

LOTO (lock out tag out) feature is provided on the air valve

Filter specification (5 microns)

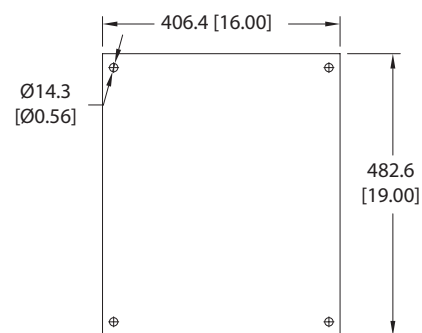
Air Pressure Sensor

See Turck PS510-10V-03-2UPN8-H1141 (100001675) for current technical data.

Features

- These pre-engineered solutions provide the ability to monitor and control cooling and other processes in the welding cell.
- Integrates IO with features for monitoring and controlling the temperature and flow rate of coolant material to and from the welding station.
- Provides leak detection and coolant cut off to shut down leakage at the welding tip. Optional retract unit creates negative vacuum on leak detection to virtually eliminate leakage.
- Built in flow restrictor allows for tuning of the cooling system. Manual shutoff at the station is available via the Water Controller for routine maintenance.
- Additional variants provide regulation and monitoring for weld cell related pneumatic needs and process gas.

Panel size



mm [Inch]

(G)

Gas Flow Meter

- Conforms to CGA E-4 standard for gas pressure regulators
- Provides accurate measurement of gas flow for gas-shielded arc welding and laboratory applications.
- Provides precise flow control in SCFH.
- Compensated at 20 PSIG and calibrated for most common industrial gases

Gas Pressure Sensor

See Turck PS510-10V-03-2UPN8-H1141 (100001675) for current technical data.

(ELB)

90° configuration for process water

(STR)

In line configuration for process water

Selection guide

Air/Gas Variants

Part Number	Air Filter Regulator	Air Pressure Sensor	Gas Flowmeter	Gas Pressure Sensor	IO-Link Master	Air End Connection Type	Gas End Connection Type	DWG
WWCS-A 200015553	X	X				1/2" JIC	N/A	
WWCS-A-IO 200015552	X	X			X	1/2" JIC	N/A	
WWCS-AG 200015554	X	X	X	X		1/2" JIC	3/8" FNPT	
WWCS-AG-IO 200015564	X	X	X	X	X	1/2" JIC	3/8" FNPT	

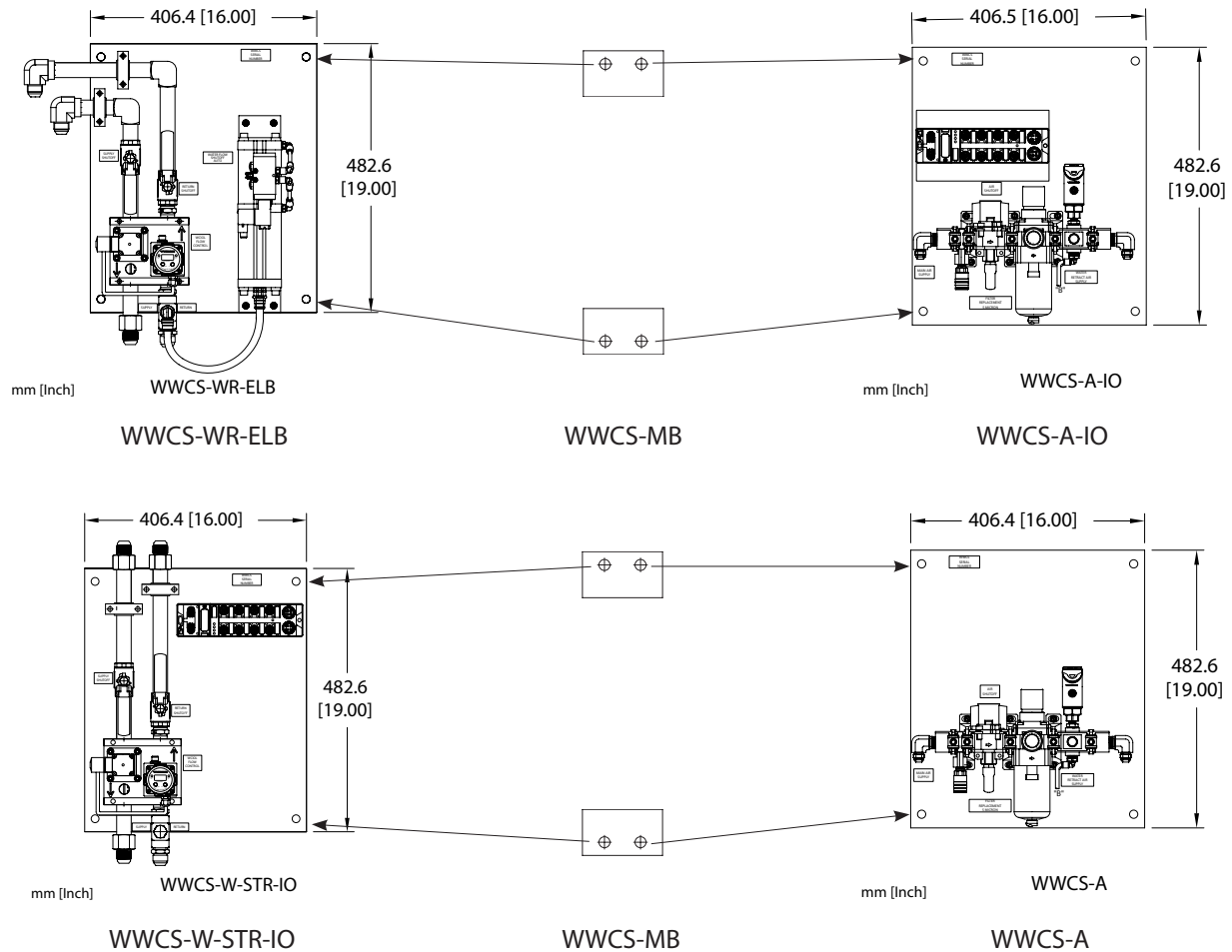
Water Varients

Part Number	Water Flowmeter	Mechanical Flow Restrictor	Water Temperature Sensor	Water Shut Off	Water Retract Module	IO-Link Master	End Connection Type	DWG
WWCS-W-ELB 200015562	X	X	X	X			3/4" JIC	
WWCS-W-ELB-IO 200015549	X	X	X	X		X	3/4" JIC	
WWCS-W-STR 200015561	X	X	X	X			3/4" JIC	
WWCS-W-STR-IO 200015247	X	X	X	X		X	3/4" JIC	
WWCS-WR-ELB 200015548	X	X	X	X	X		3/4" JIC	
WWCS-WR-ELB-IO 200015547	X	X	X	X	X	X	3/4" JIC	
WWCS-WR-STR 200015550	X	X	X	X	X		3/4" JIC	
WWCS-WR-STR-IO 200015137	X	X	X	X	X	X	3/4" JIC	

Modular Format

The Weld Water Control System is designed with a modular format where an optional mounting bracket (WWCS-MB) can be used to join an air and water panel into an integrated solution. In most applications, a single IO-Link Master is sufficient to operate the two panels. Joined panels have 32 x 19 inch (W x L) form factor.

Typical Application Examples



Accessories

Pin, ID Number	Description	Note
WWCS-MB, 200016181	WWCS Mounting Bracket Kit	Includes 2 brackets and hardware required to join two panels.
WWCS-MP, 200017106	WWCS Replacement Mounting Panel	Replacement 16 x 19 panel.