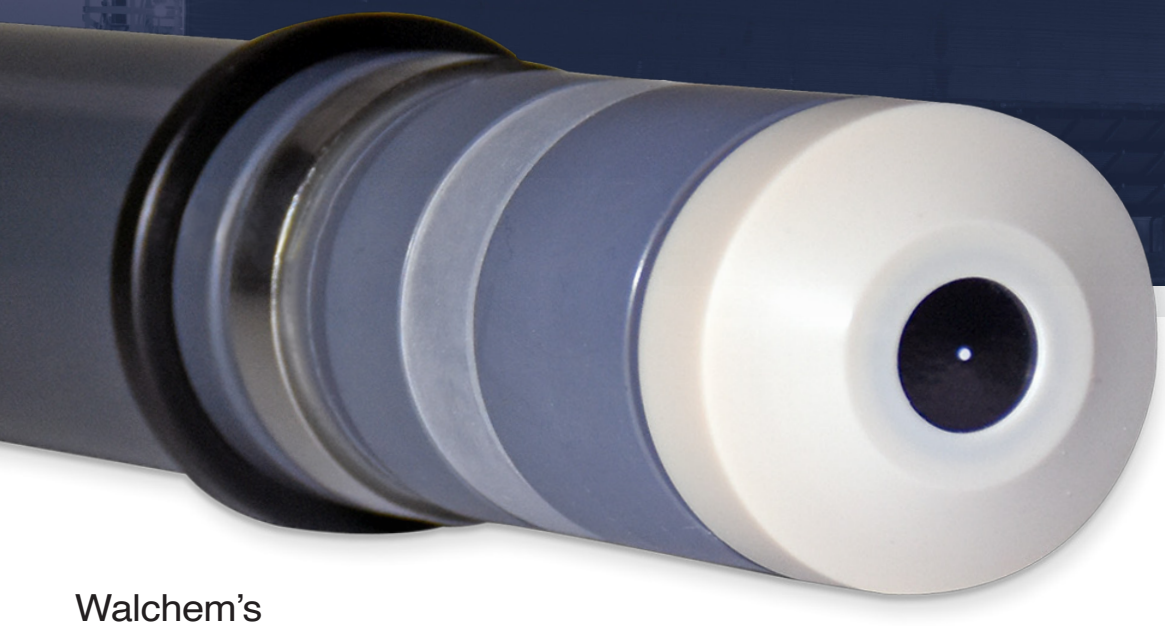
LOW MAINTENANCE FAST RESPONSE NO WASTE

AMPEROMETRIC
CHLORINE/BROMINE SENSORS

No costly reagents or tubing to replace
Continuous measurement technique
Sample can be returned to the process



Walchem's
Amperometric Chlorine/Bromine Sensors offer a cost-effective and reliable solution to your disinfection control requirements. The sensors continuously and directly measure the chemical concentration, without the use of reagents.

WDSW100, WCNP100, WDS600, W900, Intuition and WebMaster series controllers with amperometric chlorine sensors can be used for reporting chlorine residual measurements in accordance with EPA Method 334.0.

WALCHEM

IWAKI America Inc.

Walchem integrates its advanced sensing, instrumentation, fluid handling and communications technologies to deliver reliable and innovative solutions to the global water treatment market. Our in-house engineering is driven by quality, technology and innovation.

For more information on the entire Walchem product line, visit **walchem.com**

Sensor Type	Free Cl_2/Br_2 0 ppm	Free Chlorine/Bromine			Free Cl_2/Br_2 Extended pH		Free Cl_2/Br_2 High pH	Free Cl_2/Br_2 High Range	Total Chlorine	
Part No.	104010	191530	191300	191441	104274	191445	104316	104324	104258	104165
Measurement Specifications										
Range	0-2 ppm	0-2 ppm	0-20 ppm	0-200 ppm	0-2 ppm	0-20 ppm	0-200 ppm	0-2000 ppm	0-2 ppm	0-20 ppm
Resolution	0.001 ppm	0.001 ppm	0.01 ppm	0.1 ppm	0.001 ppm	0.01 ppm	0.1 ppm	1 ppm	0.001 ppm	0.01 ppm
Calibration	Monthly, DPD-1 method or iodometry								Monthly, DPD-4	
Interferences	ClO_2 Ozone Combined Cl_2 NOT for use with stabilized bromine	HOCl (100%) HOBr (100%) ClO_2 (900%) Ozone NOT for use with stabilized bromine			HOCl (100%) HOBr (100%) Ozone ClO_2 (100%) HOCl with isocyanuric acid NOT for use with stabilized bromine		HOCl (100%) HOBr (100%) ClO_2 (75%) Ozone Combined Cl_2 NOT for use with stabilized bromine	HOCl (100%) HOBr (100%) ClO_2 Ozone PAA NOT for use with stabilized bromine	Total Cl_2 (100%) ClO_2 (100%) Ozone (130%)	
Sample flow rate	30 to 100 liters/hour (0.13 to 0.44 gal/min)									
Sample pH	6.5-9	6-8			4-12		4-9	5-8	4-12	
Response Time	2 min	30 sec			2 min		2 min	8 min	3 min	
Conditioning Time	120 min	60 min			120 min		120 min	11 hours	120 min	
Electrical Specifications										
Power Requirements	± 5 VDC, 10 mA maximum									
Signal	0 to -2000 mV DC									
Maximum Cable length	30 meters (100 feet)									
Extension Cable	2 twisted pair, 22 AWG, shielded, 35 pF/ft. (Walchem 100084, Belden 8723)									
Mechanical Specifications										
Pressure	0.5 bar	1 bar			0.5 bar		3 bar	1 bar	3 bar	
Temperature	0-40 °C	0-45 °C								
Sensor Materials	Microporous hydrophilic Membrane, PVC, PEEK, stainless steel	Semipermeable membrane, PVC, ABS			Microporous hydrophilic Membrane, PVC, PEEK, stainless steel		Microporous hydrophilic Membrane, PVC, stainless steel	Semipermeable membrane, PVC, PEEK	Microporous hydrophilic Membrane, PVC, PEEK, stainless steel	
Flow manifold materials	PVC, Isoplast, FKM, acrylic, GFRPP, 316 SS									
Flow cell inlet	¼" NPTF									
Flow cell outlet	¾" NPTF									
Storage										
Sensor	Unlimited if stored dry without electrolyte at 5-40 °C (41-104 °F)									
Electrolyte	One year in original bottle, protected from sunlight at 5-35 °C (41-95 °F)									
Membrane Cap	Unlimited if unused in original packaging at 5-40 °C (41-104 °F) Used membrane caps cannot be stored									

ORDERING INFORMATION

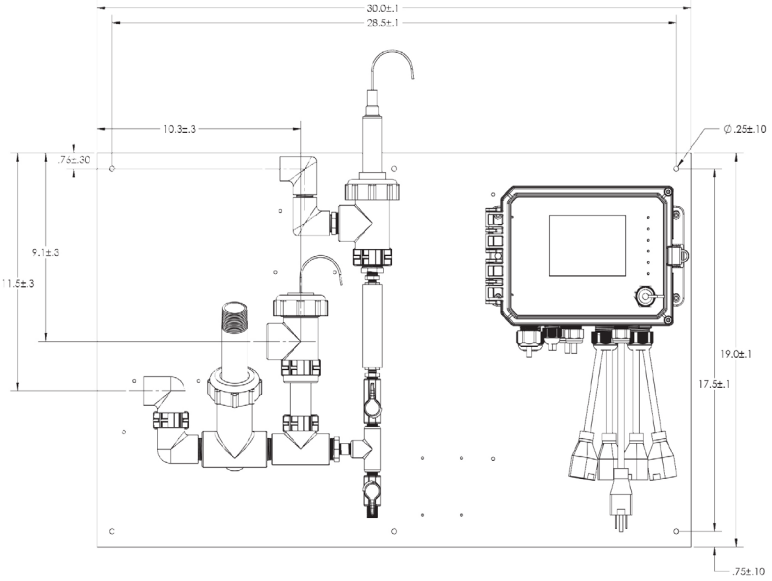
For W100, W600, W900 and Intuition Series Controllers

Choose one sensor:

Refer to the specification chart for part numbers

Choose one flow cell:

W600-DS-PN Flow switch manifold on panel, 3' cable
or W600-DS-FN Flow cell, 20' cable



Scan the QR code with your smartphone camera to access more detailed information!

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P/N 180853.D Aug 2022