

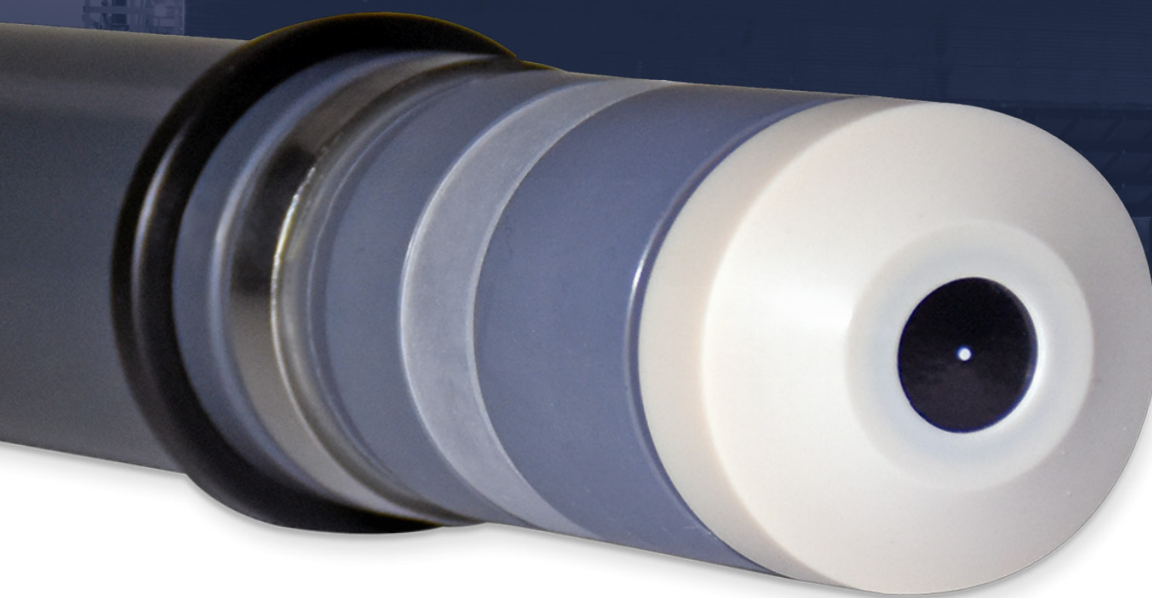
LOW MAINTENANCE

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 and WebMaster series controllers with amperometric chlorine sensors can be used for reporting chlorine residual measurements in accordance with EPA Method 334.0.

W A L C H E M

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%) 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 (75%) Ozone Combined Cl ₂ 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 (75%) Ozone Combined Cl ₂ 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 (75%) Ozone Combined Cl ₂ NOT for use with stabilized bromine	Total Cl ₂ (100%) ClO ₂ (130%) 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			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	½" 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 and W900 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!

