Signet 3719 pH/ORP Wet-Tap Assembly





3719 Assembly 2756, 2757 Wet-Tap Electrodes (Sold Separately)

The Signet 3719 pH/ORP Wet-Tap allows installation and removal of pH or ORP electrodes, even under process pressure, without the need for process shutdown during routine electrode maintenance and calibration. Automatic process isolation is achieved during electrode retraction with a double O-ring seal on a unique and compact retraction assembly; no separate valve is required.

A patented cam-activated automatic locking mechanism, SafeLoc[™], and the short stroke design help to assure operator safety. The wet-tap unit can be mounted at any angle and can be used with the Signet DryLoc[®] Wet-Tap electrodes.

Features

- Electrode removal without process shutdown
- Space saving 45 mm (1.75 in.) short-stroke design
- Sealed pneumatic dampening for smooth and safe operation
- SafeLoc™: Cam-activated automatic locking mechanism
- Protects electrode sensing surface from breakage
- Suitable for mounting in any orientation
- Process threaded connection NPT or ISO

Applications

- Aquatic Animal Life Support Systems
- Recreational Water Monitoring
- Water & Wastewater Treatment
- Effluent Monitoring
- Neutralization Systems
- Sanitization Systems
- Pool and Spa Control

Specifications

2756-WT, 2756-WT-1	glass		
2756-WTP, 2756-WTP-1	plastic		
2757-WT	glass		
2757-WTP	plastic		
3719-11	NPT 1½ in.		
3719-21	NPT 2 in.		
3719-12	ISO 7/1 - R 1.5		
3719-22	ISO 7/1 - R 2		
3 m/s	10 ft/s		
CPVC			
FPM			
PVC			
316 stainless steel			
g			
100 psi (6.9 bar) maximum			
See Temperature/Pressure gra	See Temperature/Pressure graphs for more information		
1.2 kg	2.7 lb		
ISO 9001 for Quality and ISO 14	001 for Environmental Management		
	2756-WTP, 2756-WTP-1 2757-WT 2757-WTP 3719-11 3719-22 3719-22 3719-22 3 m/s CPVC FPM PVC 316 stainless steel g 100 psi (6.9 bar) maximum See Temperature/Pressure gra 1.2 kg		

See Temperature and Pressure graphs for more information

4 to 20 mA Input Panel Mount Other Signet Instrument 3-2750 Sensor Electronics Signet 2760 Preamplifier 5700 8750 with 2760 Preamplifier and customer supplied Chart Recorder with customer supplied 8900 9900 with 2750 Sensor Electronics System Overview or Programmable Logic Controller instrument л<u>т</u>т Постан innni linnni **OR** MMM OODE MM IIIII NO DA Signet Model 3719 Wet-Tap Assembly with Wet-tap electrode 3-2756-WT, 3-2756-WTP 3-2757-WT or 3-2757-WTP All sold separately Customer supplied tees and fittings

Wet-Tap Installation

Specifications

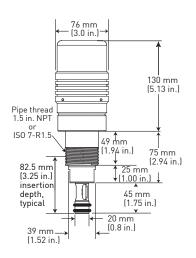
2756-WT and 2757-WT pH/ORP Wet-Tap Electrodes

General				
Compatibility	Signet 3719 Wet-Tap Assembly, 2750 Sensor Electronics or 2760 Preamplifier			
Operating Range	pH	0 to 14 pH		
	ORP	Application dependent		
Connector	CPVC	DryLoc®		
Temperature Sensor (pH)	PT1000 or 3K Balco for pH			
Reference Junctions	Porous PTFE			
	Electrolyte	Saturated KCl		
	Elements	Ag/AgCl		
Performance				
	Efficiency	> 97% @ 25 °C (77 °F)		
Response Time		·		
	рН	< 5s for 95% of signal change		
	ORP	Application dependent		
Impedance (pH)	< 150 MΩ @ 25 °C			
Wetted Materials				
Body	Glass or PAS (Polyaryl sulphone)			
Reference Junctions	Porous PTFE			
Sensing Surface	рН	Glass membrane		
	ORP	Platinum		
0-rings	FPM			
Connector	CPVC			
Max. Temperature Rating				
Operating Temperature	0 °C to 85 °C	32 °F to 185 °F		
Storage Temperature	0 °C to 50 °C	32 °F to 122 °F		
Mounting	Any angle is acceptable. Use	Any angle is acceptable. Use with 3719 wet-tap assembly for mounting electrodes.		
Shipping Weight				
	0.2 kg	0.4 lb		
Standards and Approvals				
	Manufactured under ISO 9001 for Quality			

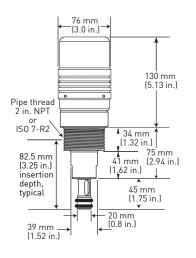
Dimensions

Assembly 3719-1X

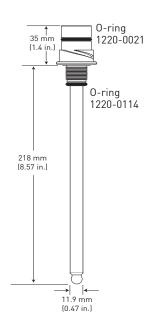
For pipe sizes up to 4 in.



Assembly 3719-2X For pipe sizes 6 to 12 in.

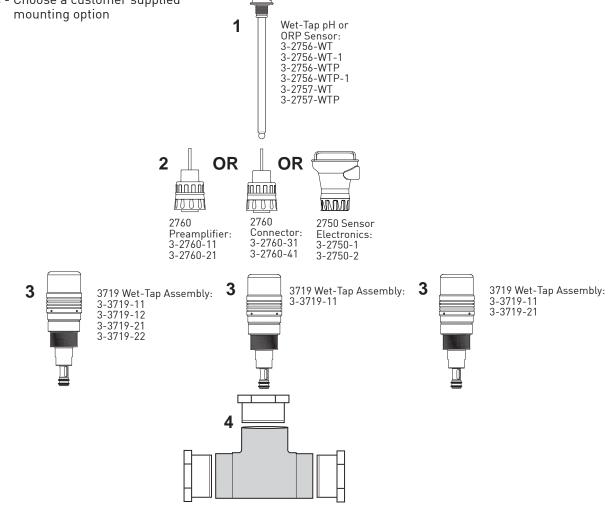


Electrodes 3-2756 Wet-Tap pH, 3-2757 Wet-Tap ORP



Product selection Guide:

- Step 1 Choose Sensor
- Step 2 Choose preamplifier or sensor electronics
- Step 3 Choose Wet-Tap assembly
- Step 4 Choose a customer supplied mounting option

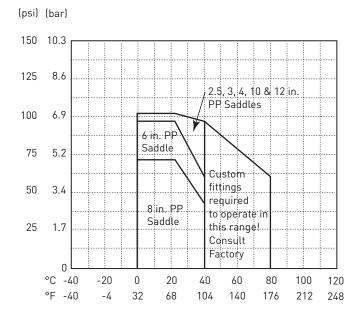


Customer supplied Tees and Fittings

Operating Temperature/Pressure Graph

Note:

The pressure/temperature graphs are specifically for the Signet sensor. During system design the specifications of all components must be considered. In the case of a metal piping system, a plastic sensor will reduce the system specification.



See Technical Reference section for assistance in choosing the correct sensor.

Ordering Information

Wet-Tap Assembly

	Mfr. Part No.	Code	Process Thread Connection	for pipe size
	3-3719-11	159 000 804	1½ inch NPT	21⁄2 to 4 in.
	3-3719-12	159 000 806	ISO 7/1-R 1.5	21⁄2 to 4 in.
	3-3719-21	159 000 805	2 inch NPT	6 to 12 in. pipes
TT -	3-3719-22	159 000 807	ISO 7/1-R 2	6 to 12 in. pipes
		'		'

Model 3719

Ordering Information

- 1) Use a mounting saddle or a standard threaded part to mount Wet-Tap assembly.
- 2) ASTM fittings are available to order; metric fittings are customer supplied.
- 3) Use -11 or -12 versions for pipe sizes up to 4 in.
- 4) Use -21 or -22 versions for pipe sizes 6 to 12 inches.

Ordering Information

Mfr. Part No.	Code	Electrode Material	Temperature Element	use with
DryLoc® pH Electrodes				
3-2756-WT	159 000 834	glass	PT1000	2750 Sensor Electronics*
3-2756-WT-1	159 001 383	glass	3 KΩ Balco	2760 Preamplifier**
3-2756-WTP	159 001 390	plastic	PT1000	2750 Sensor Electronics*
3-2756-WTP-1	159 001 384	plastic	3 KΩ Balco	2760 Preamplifier**
DryLoc® ORP Electrodes				
3-2757-WT	159 000 835	glass	N/A	2750 Sensor Electronics* or 2760 Preamplifier**
3-2757-WTP	159 001 391	plastic	N/A	2750 Sensor Electronics* or 2760 Preamplifier**

**The 2760 preamplifier is used for connection directly to Signet 5700 Monitor or 8750 Transmitter and other analog transmitters.

Model 2756-2757

Ordering Notes

1) pH and ORP electrodes require connection to model 2750-1 or -2 or 2760-X1.

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
3-2700.395	159 001 605	Calibration kit: includes 3 polypropylene cups, box used as cup stand, 1 pint pH 4.01, 1 pint pH 7.00
3822-7115	159 001 606	20 gm bottle quinhydrone for ORP calibration
		(must use pH 4.01 and/or pH 7.00 buffer solutions)
Other		
1220-0114	159 000 854	3719 O-ring, FPM (spare part)
3-3719.390	159 000 855	3719 locking shroud (spare part)
1220-0021	198 801 186	O-ring, FPM
1224-0205	159 000 836	O-ring, EPR (EPDM)
3-0700.390	198 864 403	pH buffer kit (1 each 4, 7, 10 pH buffer in powder form, makes 50 ml of each)
3822-7004	159 001 581	pH 4 buffer solution, 1 pint (473 ml) bottle
3822-7007	159 001 582	pH 7 buffer solution, 1 pint (473 ml) bottle
3822-7010	159 001 583	pH 10 buffer solution, 1 pint (473 ml) bottle