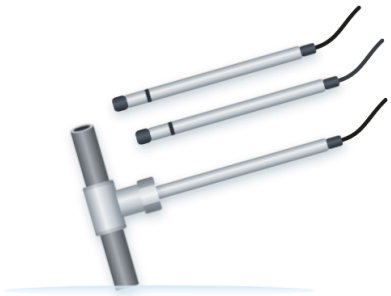
Fluid Sensors
Sulfide Sensor

Detailed Technical Data
Model: S80 Series

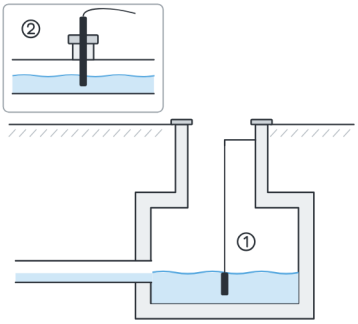
Features

Medium	Water/fluids
Sensor type	Ion selective
Orientation	Vertical
Environment type	Non-hazardous, hazardous
Purpose	General use / industrial
Installation	Insertion, immersion, valve retractable service



Mechanical

Housing, sensor MOC	316 SS, PEEK, epoxy, AgS crystal, PTFE, Viton O-ring
Cable MOC	PVC
Cable lengths	10 and 30 Ft
Measurement range	Sulfide: 0.02 to 32,000 ppm, pH sensitive measurement,
	11 pH to 14 pH with compensation, >13 pH without
Temperature range	32°F to 176°F (0° to 80°C)
Interfering ions	None
Process connection	Insertion: ¾" MNPT compression fitting
	Valve retractable: 1" MNPT ball valve
Pressure range	0 – 50 psig (0 – 3.5 bar)
Electrode life	6 to 12 months
Probe replacement	Replaceable electrode cartridge
Operating temperature range	32 to 170° F



Electronics

Voltages to be used	24 VDC
Output	4-20mA

Sulfide Detection
Sulfide detection and monitoring is application specific as there are many ways to monitor the variety of sulfide products.

Sulfide refers to three classes of compounds containing sulfur, which include inorganic sulfides, organic sulfides (sometimes called thioethers), and phosphine sulfides. Inorganic sulfides are ionic compounds containing the negatively charged sulfide ion, S^{2-}.
Being a large grouping of compounds of which variations include minerals, metals, salts and the ever-popular hydrogen sulfide gas and many other derivative products you will need to identify the sulfide product to be detected.

In some applications, we can apply an ion-specific sensor for a sulfide measured parameter in ppm when used in conjunction with pH and temperature measurements. Also available from some manufacturers are sensors designed specifically for hydrogen sulfide (H_2S) in untreated wastewater. In some applications, additional hardware may be necessary to utilize an amperometric back titration method to measure SO_3^2 in mg/L values.

To adequately formulate the best measuring methods or techniques, it is helpful to have as much process detail as available.

6007 S. Railroad Street
Burlington, WI 53105 USA 262.716.0105
sales@intell-i-watch.com.
© 1991–2026 Pan America Environmental, Inc. · Intell-i-Watch, A Pan America Environmental Brand