



ELECTRO-CHEMICAL DEVICES, INC.

SMS-22 Datasheet

Sulfide Monitoring System



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Part No. 33SMS-22 Revision A

Features

- **Continuously measures the Total Sulfide** present in aqueous solutions up to 500 ppm
- **Plumb and Play Design**, Ready to Use, factory Calibrated
- **Grey, molded fiberglass IP66 enclosure** with Clear polycarbonate cover, easy installation, NEMA 4X
- **S10 Sulfide and S10 pH electrodes**
- **Reliable and Easily serviced Peristaltic pumps** for reagents and sample
- **C22 Analyzer Capability**, Dual Measurements, multiple outputs, timers, relays, logic gates, 110/220 VAC Power



Specifications

Sensor and Flow Train

Sensors:

Sulfide Ion Electrode, Ag₂S solid state pellet with double junction reference cell

pH Electrode, General purpose pH glass with double junction reference cell

Measurement Range:

Sulfide: 0.02 to 500 ppm

pH: 0 to 14 pH

Reagent Use:

Less than 2 gallons each per month of 16% KOH and 7.5% HCl at 10 cycles per hour

Operating Temperature:

0° C to 50° C (32° F to 122° F)

Sample Flow rate:

Sample from ambient pressure

Minimum flow, 1.5 L/hour

Wetted Materials:

PVC, PP, PTFE, Glass, 316 SS, silicone, Norprene tubing

Process Connections:

Input 3/8" Tubing, Drain 3/8" Tubing

Cycle Time:

User Defined, 6 minutes (default), 12 minutes or 30 minutes

Analyzer Settings

Run, Calibrate, Prime

C22 Analyzer:

Measurements:

Sulfide: 0.02 to 500 ppm

pH: 0 to 14 pH

Temperature: 0° C to 100° C (32° F to 212° F)

pH Compensation:

pH 11 - 14 (accuracy degrades rapidly below 11 pH)

Display:

2.5" X 1.75" backlit LCD, 4 lines for Text & Graphical

Enclosure:

NEMA 4X, LxWxD: 5.7" x 5.7" x 7

Outputs:

(1) 4-20 mA for Sulfide set to Sensors Range, user configurable

(1) 4-20 mA for pH set 0-14 pH, user configurable

Alarm Relay Ratings:

(4) SPDT 230 VAC/5A or 30 VDC / 5A resistive max.

Input Power

110/220 VAC @ 50/60 Hz

24 VDC (12 to 50 VDC) @ 1.5 A

Display

Lascar 4-20 mA loop Powered indicator

Model: DPM 742-BL