H_2S Analyzer

GPR-7500 (A)IS

ppm H_2S Analyzer

Electrochemical

The GPR-7500 (A)IS hydrogen sulphide analyzer sets the standard for online H_2S measurement. Using low-power electrochemical sensor technology, this user-friendly device delivers cost-effective, minimal maintenance, H_2S measurement in a compact design.

GPR-7500 (A)IS is certified for use in flammable gas streams, ensuring optimum performance in demanding environments.

Liquid drain configuration pictured.

Highlights

- Wide variety of measurement ranges from 0...20 ppm_V to 0...2000 ppm_V
- 4...20 mA analog output
- Dedicated sample-handling systems included
- Optional liquid drain for entrained liquids
- Optional air pump for sample dilution
- Hazardous Area certified

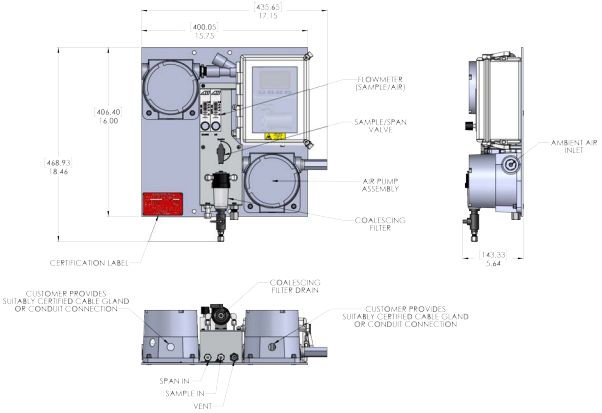
Applications

- Natural gas
- Biogas before and after H_2S scrubber

Technical Specifications

Sensor				
Model	**OSV-72-7H**	**OSV-72-7HH**	**OSV-72-7H-LD**	**OSV-72-7HH-LD**
Measurement Range	0...500, 0...1000, 0...2000 ppm_V	0...20, 0...50, 0...100 ppm_V	0...500, 0...1000, 0...2000 ppm_V	0...20, 0...50, 0...100 ppm_V
Accuracy	< 2 % of selected range at constant conditions			
Output Resolution	0.01 ppm_V			
Lower Detection Limit (LDL)	0.1 ppm_V		0.1 ppm_V (1 ppm_V with optional ranges)	
Sample Flow Rate (application dependent)	1:10 ratio (air:sample)	1:1 ratio (air:sample)	1:10 ratio (air:sample)	1:1 ratio (air:sample)
Pressure Range	5...30 psi (0.3...2 bar)			
Response Time (T90)	< 60 seconds			
Operating Temperature Range	-10...+45 °C (+14...113 °F)			
Humidity	15...90 %rh non-condensing			
Life Expectancy (application dependent)	12 months in air			
Shelf Life	Up to 3 months			
Calibration Interval (application dependent)	Monthly (recommended), no longer than 3 months			
Analyzer				
Electrical				
Display	LCD			
Output Signal	4...20 mA			
Digital Communications	Modbus (AIS only)			
Relay Output Options	Two user-configurable alarms (AIS only)			
Power Supply	12...28 V DC - loop-powered (IS) 12...24 V DC (AIS)			
Maximum Power Consumption	1 W (IS) 28 W (AIS)			
Mechanical				
Analyzer Housing Material	Painted Aluminum and Fiberglass			
Compliance				
Europe - EN 60079-0:2018, **International** - IEC 60079-1:2014				
Hazardous Area				
ATEX: II 2 G Ex db ia IIC T4 Gb, T_{amb} (–20 °C...+50 °C) - without optional air pump II 2 G Ex db ia IIB+H2 T4 Gb (–20 °C...+50 °C) - with optional air pump				
cMETus: Class I, Division 1, Groups B, C & D, T4, Class I, Zone 1, AEx db ia IIB+H2 T4 Gb, Ex db ia IIB+H2 T4 Gb T_{amb} (–20 °C...+50 °C) - with or without optional air pump				
IECEx: Ex db ia IIC T4 Gb T_{amb} (–20 °C...+50 °C) - without optional air pump Ex db ia IIB+H2 T4 Gb T_{amb} (-20 °C...+50 °C) - with optional air pump				

Dimensions, inches [mm]



Liquid drain and air pump configuration pictured, dimensions may vary with other configurations.

CAUTION

Analytical Instruments Inc (Aii) is part of the Process Sensing Technologies Group (PST). As customer applications are outside of PST control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure the equipment is suitable for the intended application(s).

We adopt a continuous development program which sometimes necessitates specification changes without notice. For technical assistance or enquiries about other options, please contact us here: instruments.support@processsensing.com.