



Applications

- Wastewater
- Collection Systems
- Industrial

GS Hydrogen Sulfide (H₂S) Monitoring Sensor



Water or air, measure H₂S where it matters – right at the source

Meet your needs with the new hydrogen sulfide sensor from Hach®. Whether in water or air, you will have the direct H₂S measurement you need to optimize your H₂S treatment process and proactively control H₂S before it causes issues. Data and trends can easily be accessed via wireless or hard-wired connections, so that you will gain actionable insights into H₂S levels, protect valuable assets from corrosion, and avoid public nuisance from odor.

Designed for tough applications in water or air

With stationary and portable options, measure H₂S in water or air with this robust, fouling-resistant sensor – whether at the plant or sewers!

Actionable H₂S measurements helps you to stay ahead of your process

Early detection makes it easier than ever before to protect infrastructure, anticipate odor, and minimize buildup.

Reliable H₂S data ready for you when you need it, how you need it

Actionable data and trends from this sensor can be accessed by wireless or hard-wired connections. Using the cloud based Hach WebData solution, users will have access to accurate measurements in water or air with ease.

Continuous H₂S monitoring made simple

This corrosion-resistant stainless-steel instrument can be inserted in pipes or installed in a flow cell, making ultra-tight spaces easy for continuous H₂S monitoring. Cleaning is as simple as wiping the sensor head before each calibration, and calibration only takes five minutes.

Technical Data*

Sensor

Model	GS1440	GS2440EX
EExp / Hazardous Location	N/A	ATEX and UKCA: II 1G Ex ia IIC T4 Ga IECEX: Ex ia IIC T4 Ga North America: Class I Zone 0 AEx ia IIC T4 Ga Class I Division 1 Groups A-D T4 Ex ia IIC T4 Ga (-20 °C ≤ Ta ≤ +60 °C)
Certifications	CE, UKCA, FCC, ISSED, RCM, KC	CE, UKCA, IECEX, FCC, ISSED, RCM, cETLus
Parameter	Hydrogen Sulfide (H ₂ S)	
Measuring range	Wastewater: 0 - 5 mg/L Air: 0 - 1000 ppm	
Response time	< 30 seconds	
Calibration	1000 ppm ± 2% gas standard	
Calibration interval	1 - 6 months, depending on use	
Material	Stainless Steel (316 L)	
Cleaning	Mechanical cleaning (wipe) of sensor face for in-water installations	
Mounting	Free hanging, in pipe or flow cell	
Storage conditions	0 - 60 °C (32 - 140 °F), relative humidity 0 - 100%	
Operating temperature range	0 - 40 °C (32 - 104 °F)	
Power Options	4-20 mA loop power DC power (12-28 V) Battery powered with field transmitter H ₂ S EX	
Dimensions (D x L)	48.3 mm x 240 mm	
Weight	1.36 kg (3.00 lb)	

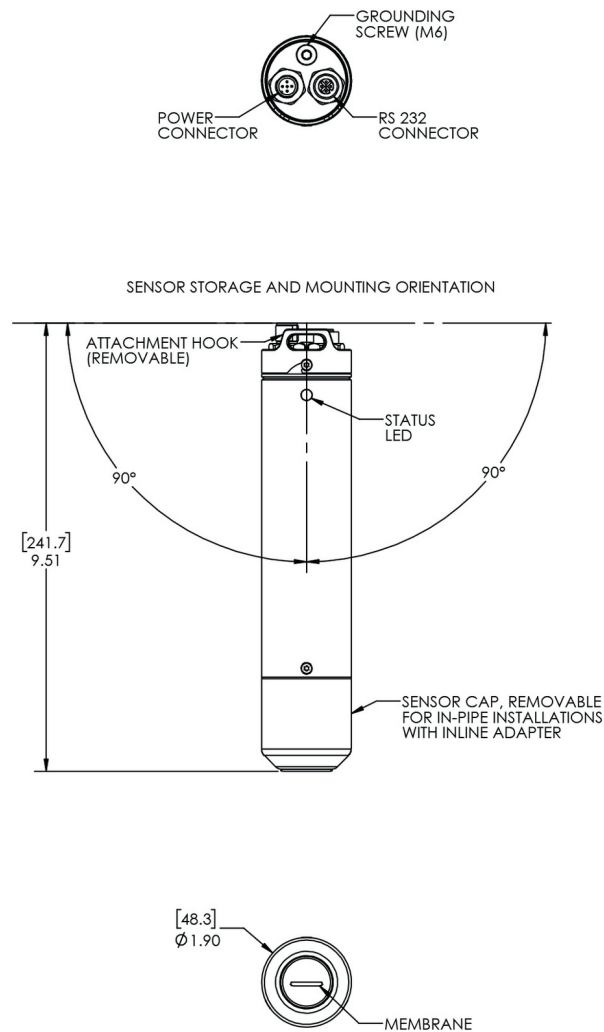
CAX440EX Field Transmitter

Power Options	Batteries or DC power (9-28 VDC, min. 1 A), 4-20 mA loop power (24 VDC from a device, e.g. SCADA/PLC)
Battery life	3 months (estimated)
Data Download/ Output	Cloud data 4-20 mA (24 V) for SCADA/PLC
Parameter	Hydrogen Sulfide (mg/L or ppm), Temperature
Interface	Status LED; On-off switch
Material	Polypropylene
Certifications	CE, UKCA
EExp / Hazardous Location	ATEX/UKEX II 2(1) G Ex ib [ia IIC Ga] IIC T4 Gb ATEX/UKEX II (1) G [Ex ia Ga] IIC (with external connections)
Dimensions (H x W x D)	179 mm x 215 mm x 107 mm
Weight	0.99 kg (2.18 lb)

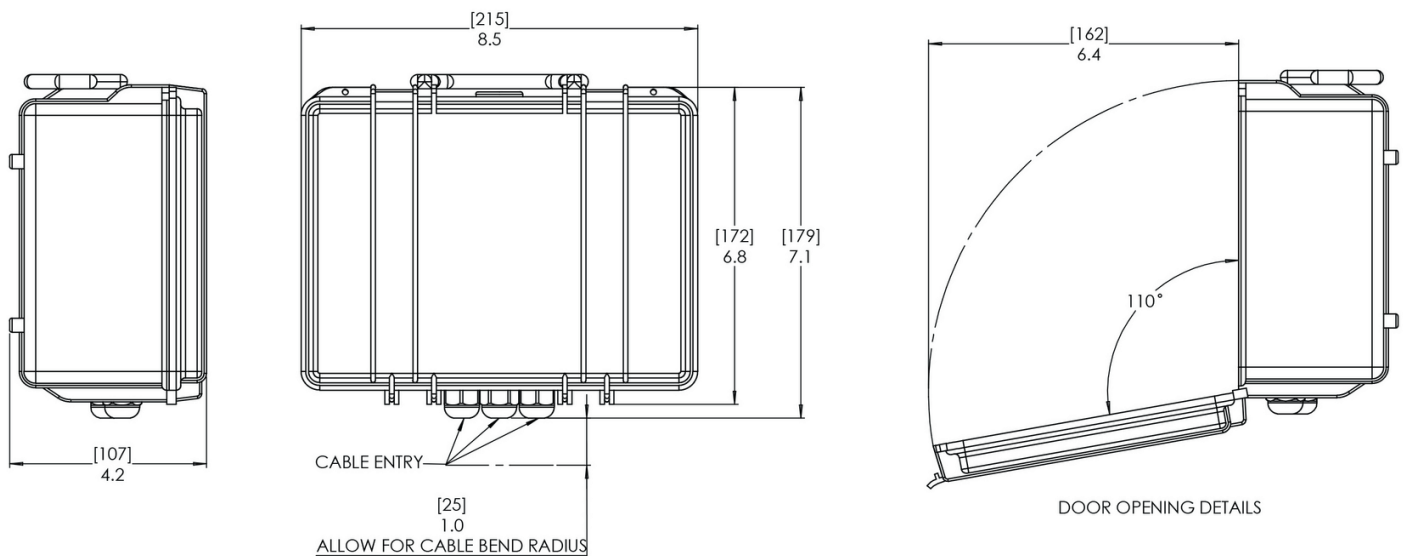
*Subject to change without notice.

Dimensions

GS1440/GS2440EX Hydrogen Sulfide Sensor



Cx440EX Field Transmitter



Order Information

Sensors

LXV449.99.10000	GS1440 Sensor H ₂ S
LXV449.99.20000	GS2440EX Sensor H ₂ S EX

Portable Transmitters and Power Sources

LXV449.98.01000	CAX440EX Field Transmitter H ₂ S EX, Wireless 3G (EU & UK)
LXV449.98.01010	CAX440EX Field Transmitter H ₂ S EX, Wireless 4G (EU & UK)

Consumables and Spare Parts

LXZ449.99.00003	Batteries for CA440EX Field Transmitter H ₂ S EX, pk/8
LXZ449.99.00012	Installation spare parts kit, GS1440/GS2440EX

Accessories

LXV449.99.02000	CDx440sc Gateway
LXZ449.99.00001	Tee, 1¼" BSPT
LXZ449.99.00022	Tee, 1¼" NPT
LXZ449.99.00002	Suspension chain and carabiners, 3 m (10 ft)
LXZ449.99.00004	Adapter for inline mounting, 1¼" BSPT
LXZ449.99.00015	Adapter for inline mounting, 1¼" NPT
LXZ449.99.00005	Adapter for inline mounting with tee, 1¼" BSPT
LXZ449.99.00019	Adapter for inline mounting with tee, 1¼" NPT
LXZ449.99.00006	Cable guard extension, 1.4 m (4.6 ft)
LXZ449.99.00017	Cable guard, with chain
LXZ449.99.00007	Crossbeam
LXZ449.99.00008	Crossbeam clamps
LXZ449.99.00009	CAX440EX Field Transmitter H ₂ S EX External Antenna
LXZ449.99.00010	Flush-front sensor cap for submerged sensors
LXZ449.99.00011	Air flow cell, GS1440/GS2440EX
LXZ449.99.00013	4-20 mA Barrier with power supply, GS2440EX
LXZ449.99.00014	CAX440EX Field Transmitter H ₂ S EX DIN rail and wall bracket (EU & UK)

Cellular Data Subscriptions

LXZ449.99.D0001	CAX440EX Field Transmitter Data License, 1 year
LXZ449.99.D0002	CAX440EX Field Transmitter Data License, 2 years

Sensor Cables

101335	Cable pull-through tool for cable guard
100934-05	RS232 cable, 5 m (16.4 ft)
100934-10	RS232 cable, 10 m (32.8 ft)
100934-30	RS232 cable, 30 m (98.4 ft)
100935-05	Power cable, 5 m (16.4 ft)
100935-10	Power cable, 10 m (32.8 ft)
100935-30	Power cable, 30 m (98.4 ft)
LXZ449.99.02G05	Cable Set, RS232 and Power, 5 m (16.4 ft), gas measurement
LXZ449.99.02G10	Cable Set, RS232 and Power, 10 m (32.8 ft), gas measurement
LXZ449.99.02G30	Cable Set, RS232 and Power, 30 m (98.4 ft), gas measurement
LXZ449.99.02L05	Cable Set, RS232, Power and cable guard, 5 m (16.4 ft), liquid measurement
LXZ449.99.02L10	Cable Set, RS232, Power and cable guard, 10 m (32.8 ft), liquid measurement
LXZ449.99.02L30	Cable Set, RS232, Power and cable guard, 30 m (98.4 ft), liquid measurement

Hach Service

With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximise instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

