



Hydrogen Sulphide Data Logger

GHS-8AT-EX



Incorporated data logger makes it possible for continuous monitoring in sewer system.

If corrosive hydrogen sulphide is generated in the sewer system, it makes rust in the sewer and generates odours from underground. In the worst case, the H₂S gas greatly damages buildings and facilities. Continuous monitoring is provided to watch the sewer system, corrosion of sewage pipelines and generation source of offensive odours.

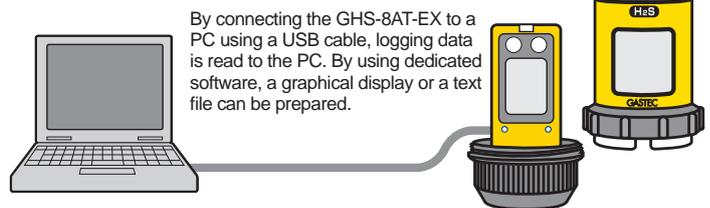
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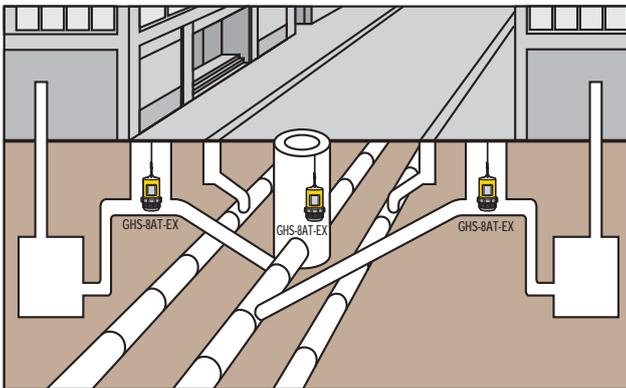
- The large display screen enables you to check concentration, temperature, and remaining battery capacity.
- The product also comes with a function that notifies you of when the sensor must be calibrated.
- The recording switch enables you to freely select the start and end points of recording.
- Small and light weight
- You can easily remove the outer case to replace it.
- The water resistance and corrosion resistance of the structure have been enhanced (IP66/67), and the product is designed to float on water.
- Even when logging is performed for one minute, up to one month's worth of concentration and temperature data can be recorded.
- We manufacture sensors for a wide range of measurement applications to match a variety of measurement locations.



Easy data processing by ANASYS



Example of use in sewer facilities in a downtown high-rise area



Specifications

| | | | | | |
|---|---|--|-------------|-------------|-------------|
| Model No. | GHS-8AT-EX | | | | |
| Application | Hydrogen Sulphide | | | | |
| H ₂ S Sensor | Controlled potential electrolysis sensor | | | | |
| Sampling method | Diffusion | | | | |
| Sensor range | 0 - 10.0ppm | 0 - 100ppm | 0 - 500ppm | 0 - 1000ppm | 0 - 3000ppm |
| Sensor code | H2S-520E | H2S-521E | H2S-522E | H2S-523E | H2S-524E |
| Accuracy *1 | ±5% of F.S. | ±5% of F.S. | ±5% of F.S. | ±5% of F.S. | ±5% of F.S. |
| Increments | 0.1ppm | 1ppm | 1ppm | 10ppm | 25ppm |
| Temperature measuring range | 0°C - 40°C | | | | |
| Temperature sensor | CMOS Temperature sensor | | | | |
| Temperature accuracy | ±3°C | | | | |
| Display | LCD Display (concentration, temperature, time, battery life, remained data capacity in days) | | | | |
| Log type | Selectable from instant, average, peak, minimum | | | | |
| Operating temperature and humidity ranges | Temperature: 0 - 40°C Humidity: 30 - 95%RH (Non-condensing) | | | | |
| Power supply | 2 x AA Alkaline batteries. Only the following types may be used: LR6(Panasonic) MN1500(DURACELL) | | | | |
| Battery life | 3 months *2 | | | | |
| Battery for memory backup and clock | 1 x Lithium battery Typical battery life: 5 years *3 | | | | |
| Clock error | ±10 seconds/day (25°C) | | | | |
| Data logging capacity | 45960 points *4 | | | | |
| Logging interval | 1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 60 minutes | | | | |
| Communication interface | USB2.0 | | | | |
| Dimensions | 89 x 148mm (approx.) | | | | |
| Weight | 390g (approx.) | | | | |
| Standard accessories | H ₂ S sensor, String (5m), Screw lock stainless ring catch (oval, triangle), Ball Allen driver, Screw driver, AA battery (2), sensor filter (6), Dedicated software ANASYS, USB cable (1m), Instruction manual | | | | |
| EU Directive | 2014/34/EU(ATEX), 2014/30/EU(EMC), 2011/65/EU.(EU)2015/863(RoHS) | | | | |
| Marking | ATEX | II2G Ex ia IIB T3 Gb | | | |
| | IEC Ex | Ex ia IIB T3 Gb | | | |
| Certificate Number | ATEX | DEKRA 14ATEX0135 | | | |
| | IEC Ex | IECEX DEK 14.0085 | | | |
| Standards | ATEX | EN IEC60079-0:2018 , EN60079-11:2012 | | | |
| | IEC Ex | IEC60079-0:2017 , IEC60079-11:2011 | | | |
| | EMC | EN50270:2015, EN55032:2015+A11:2020+A1:2020, EN55035:2017+A11:2020 | | | |
| RoHS | EN IEC63000:2018 | | | | |

Options

| Product code | Description |
|--------------|--|
| H2S-520E | H ₂ S sensor 0 - 10ppm |
| H2S-521E | H ₂ S sensor 0 - 100ppm |
| H2S-522E | H ₂ S sensor 0 - 500ppm |
| H2S-523E | H ₂ S sensor 0 - 1000ppm |
| H2S-524E | H ₂ S sensor 0 - 3000ppm |
| CK-11L-E | H ₂ S gas generation kit 0 - 10ppm |
| CK-11-E | H ₂ S gas generation kit 0 - 100ppm |
| CK-11H-E | H ₂ S gas generation kit 0 - 500ppm |
| CK-11HH-E | H ₂ S gas generation kit 0 - 1000ppm, 0 - 3000ppm |
| GHS8AT-83EX | External casing |
| GHS8ATEX-84 | Bottom casing |

To calibrate the GHS-8AT-EX, use the dedicated calibration hydrogen sulphide generating kit to generate gas and then perform calibration. When using the GHS-8AT-EX, it is also necessary to use the applicable CK-11-E series calibration hydrogen sulphide generating kit.
*We also have a kit which does not include the GV-100 gas sampling unit.

*1 Calibrated accuracy
*2 >20°C, logging interval 5 minutes, pilot lamp disabled.
*3 Without Alkaline batteries. If Alkaline batteries are installed, battery life will be longer because power is supplied from Alkaline batteries.
*4 31 days by logging interval of 1 minute.

Specifications and appearance are subject to change without notice.
Read and understand the instruction manuals completely before operating.
The actual products may differ slightly from the pictures shown.

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For all types of gas and vapour SINCE 1970



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