

## 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 H<sub>2</sub>S 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.

### Hydrogen Sulphide Data Logger GHS-8AT-

- 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.

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



Options					
Product code	Description				
H2S-520E	H <sub>2</sub> S sensor 0 - 10ppm				
H2S-521E	H <sub>2</sub> S sensor 0 - 100ppm				
H2S-522E	H <sub>2</sub> S sensor 0 - 500ppm				
H2S-523E	H <sub>2</sub> S sensor 0 - 1000ppm				
H2S-524E	H <sub>2</sub> S sensor 0 - 3000ppm				
CK-11L-E	H <sub>2</sub> S gas generation kit 0 - 10ppm				
CK-11-E	H <sub>2</sub> S gas generation kit 0 - 100ppm				
CK-11H-E	H <sub>2</sub> S gas generation kit 0 - 500ppm				
CK-11HH-E	H <sub>2</sub> 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.





#### Specifications

Model No.		GHS-8AT-EX						
Application		Hydrogen Sulphide						
H <sub>2</sub> S Sensor		Controlled potential electrolysis sensor						
Sampling met	hod	Diffusion						
Sensor range		0 - 10.0ppm	· 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 mea	suring range	0°C - 40°C						
Temperature :	sensor CMOS Temperature sensor							
Temperature a	accuracy ±3°C							
Display	splay LCD Display							
		(concentration, temperature, time, battery life, remained data capacity in days)						
Log type		Selectable from instant, average, peak, minimum						
Operating ten	nperature	Temperature: 0 - 40°C						
and humidity	ranges	Humidity: 30 – 95%RH (Non-condensing)						
Power supply		2 x AA Alkaline batteries.						
		Only the follow	y the following types may be used: LR6(Panasonic) MN1500(DURACELL)					
Battery life		3 months *2						
Battery for memory ba	ackup 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 interv	/al	1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 60 minutes						
Communicatio	n interface	USB2.0						
Dimensions		89 x 148mm (approx.)						
Weight		390g (approx.)						
Standard accessories		H <sub>2</sub> S sensor, String (5m), Screw lock stainless ring catch (oval, triangle),						
		Ball Allen driver, Screw driver, AA battery (2), sensor filter (6),						
ELLD: C		USB cable (1m), Instruction manual						
EU Directive		2014/34/EU(ALEX), 2014/30/EU(EMC), 2011/05/EU,						
Morking		(EU)2015/863(R0HS), (EU)2023/1542(BALLERY)						
warking		II2G EX IA IIB 13 Gb						
Cortificato								
Number		DENKA 14A1EXU133						
Standarda		IEGEX DEN 14.0000 EN IEGE0070 0:0019 ENE0070 11:0010						
		IEC00079-0.2017, IEC00079-11.2011 EN50270-2015 EN55022-2015+A14-2020+A1-2020 EN55025-2017+A14-2020						
	RoHS	EN IEC630	EN IEC63000-2018					
*1 Calibrated								

\*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.

SINCE 1970 For all types of gas and vapour



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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.