



Hydrogen Sulphide Detection Unit (Intrinsic Safety Type)

T C I S - H S - 3 0



Indicator unit



4 ~ 20mA Output

《Feature》

- Intrinsic safety structure (Exia II CT4)
- Explosion proof for hot environment (Ta 50°C)
- A variety of system that combined by 4-20mA output
- Digital display

TOKA SEIKI CO., LTD

《Summary》

This equipment could display density of H₂S at detection unit and also transm it 4-20mA signal to indicator unit. (DC24V 2 line transmission system)
Pursuant to recommended practices 2006 for explosion-protected electrical installations in general industries, maintain explosion proof till 50°C ambient temperature. (Usually 40°C) So this equipment could use at high-temperature environment with safety.

《Specification》

Detection unit

Model	TCIS-HS-30
Principle	Potentiostatic Electrolysis Method
Measuring gas	Hydrogen Sulphide (H ₂ S)
Sampling method	Diffusion type
Measuring range	0 ~ 30 ppm
Accuracy	Within ± 5% of full scale (JIS T8205)
Output of detection unit	4 ~ 20mA DC
Respond speed	Within 60 second 90% response
Dimension	120 (W) × 156 (H) × 69 (D) mm
Weight	About 1.5 kg
Structure	Exia II CT4 (Ambient temperature 50°C, Safety barrier MTL-787S+)
Operating temperature	- 20 ~ 50 °C Below 90%RH
Option	Water-proof cover

Example of indicator unit (Using one point of TK-303-HS)

Measuring range	0 ~ 30 ppm
Accuracy	Within ± 5% of full scale (JIS T8205)
Alarm setting level	5 ppm (Flexible setting)
Alarm Accuracy	Within ± 25% of alarm setting level
Power	AC 100V
Power consumption	MAX. 7VA
Dimension	120 (W) × 206 (H) × 73 (D) mm
Weight	About 1.0 kg
Outside warning contact	No-voltage 1c POC (AC125V, 1A)
Indicating lamp	Operation lamp : Green LED lighting Warning lamp : Red LED blinking
Warning sound	Electronic buzzer (intermittent tone)
Condition	- 20 ~ 50 °C 90%RH below
Mounting	Wall-mounted type (Option for flush-mounted type)

● CALL TO YOUR LOCAL AGENT

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