

## **FIXED TYPE WIRELESS GAS DETECTOR** **SDWL-1RI (TIIS) SPECIFICATION**

Model	SDWL-1RI
Detection principle	Non-dispersive infrared absorption method
Gas to be detected	Methane(CH <sub>4</sub> ), Iso-butane(i-C <sub>4</sub> H <sub>10</sub> )
Concentration display	LCD
Detection range* <sup>1</sup>	0-100%LEL
Resolution	0.5%LEL
Detection method	Diffusion method
Alarm setpoint value* <sup>1</sup>	25%LEL (ALM1), 50%LEL (ALM2)
Power display	Checked with LCD display
Alarm accuracy (under the same conditions)	Within ±25% to the alarm setpoint value
Alarm delay time (under the same conditions)	Within 30seconds after providing the gas 1.6 times the alarm setpoint
Gas alarm type	Two-step alarm(H-HH)
Gas alarm display	Alarm lamps light up(ALM1:Red, ALM2:Red)
Alarm pattern	Non latching(auto-reset)
Fault alarm/Self diagnosis	System failure/sensor failure/antenna fault warning/communication abnormality warning
Fault alarm display	FAULT lamp lights up(yellow)
Fault alarm pattern* <sup>1</sup>	System abnormality: Self-latching Sensor/communication abnormalities: Non-latching(auto-reset) or Self-latching can be selected.
Wireless communication protocol	ISA100.11a (IEEE802.15.4 compliant)
Frequency range/ Wireless output power	2400 MHz - 2483.5 MHz, 12 dBm or less
Applicable wireless standard	FCC Approval (United States) IC Approval (Canada) IMDA Approval (Singapore)
Applicable EMC standard	EN50270, EN61326-1
Functions	Zero suppression/alarm delay
Power supply	Battery driving: 7.2 V, lithium thionyl chloride battery (manufactured by TADIRAN: TL-5930/S)
Continuous operating time	1 year (register AI:3pcs and B0:2pcs, 25°C, no alarm, I/O device setting)
Piping port	Gas inlet: 0. Dφ6-1t with SUS half union<for SUS pipe> Gas outlet: 0. Dφ6-1t with elbow union<for SUS pipe>
Initial clear	Approx.60 seconds
Operation	Dedicated magnet
Operating temperature	-20 - +60°C(non-rapidly-vary)
Operating humidity	95%RH or less(non-condensing/at a constant condition)
IP class	IP65(sensor part excluded)
How to install	2B pole mounting, wall mounting
Explosion-proof structure	Pressure-proof + intrinsically safe explosion-proof structure
Explosion-proof class	Detector head: Ex d ia IIC T4 Gb Parts other than detector head: Ex ia IIC T4 Gb
Explosion-proof approval No.	TC22131X
Dimensions	Approx. 157 (W) × 297 (H) × 206 (D) mm
Weight	2B pole mounting: approx. 4.5kg, wall mounting: approx. 5.5kg
Color	Munsell 7.5BG5/2

\*1 Please specify your request when ordering.

Outline Drawings

