



RIKEN KEIKI

TRANSMITTER TYPE GAS DETECTOR

Model SD-1RI (TYPE HS)

HART
COMMUNICATION FOUNDATION



Features

- Explosion class Exd IIC T6 Gb (CML 15ATEX1034 / IECEx (Pending))
- SIL2 IEC61508:2010 Parts 1-7
- 4-20mA DC output with HART
- IP65 ingress class
- Small, rugged, dust and weather proof construction
- One man maintenance by magnetic control key
- Self diagnosis by microprocessor

Specifications

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|--|---|
| Model | SD-1RI (TYPE HS) |
| Detection principle | Non Dispersive Infrared Ray (NDIR) |
| Gas to be detected | Combustible gas |
| Concentration display | Seven-segment LED (four-digit) |
| Detection range | 0-100 %LEL (0.5%LEL/digit) |
| Detection method | Diffusion type |
| Alarm set-point | 25 %LEL |
| External output | 4-20mADC with HART (load resistance : 300 Ω Max) |
| Initial clear time | Approx. 25 seconds |
| Alarm delay time (under the same conditions) | Approx. 30 seconds when exposed to gas concentration of 1.6 times alarm level |
| Gas alarm display | ALM lamp on (red) |
| Gas alarm pattern | Non latching (auto-reset) |
| Fault alarm/self diagnosis | System abnormalities/sensor abnormalities |
| Fault alarm display | FAULT lamp on (yellow)/detail display |
| Fault alarm pattern | Non latching (auto-reset) |

| | |
|--------------------------------------|---|
| Transmission cable | CVVS 1.25 mm ² - 3-core or - 4-core CVVS 2.0 mm ² - 3-core or - 4-core |
| Transmission distance | Max 1.25 km CVVS 1.25 mm ² Max 2.0 km CVVS 2.0 mm ² |
| Power supply | 24 VDC (17 – 26.4 VDC) |
| Power consumption | Maximum 2 W |
| Cable connecting port | Flameproof cable gland |
| Operating temperatures | -20 - +60°C (at a constant condition) |
| Operating humidity | 95% RH (Non-condensing) |
| Explosion-proof structure | Flame-proof enclosures |
| Explosion-proof class | Exd IIC T6 Gb |
| Explosion-proof certification number | CML 15ATEX1034 / IECEx (Pending) |
| Dimensions /Weight | Approx. 148 (W) x 161 (H) x 88 (D) mm (projection portions excluded) Approx. 2.0 kg |

Specifications subject to change without notice

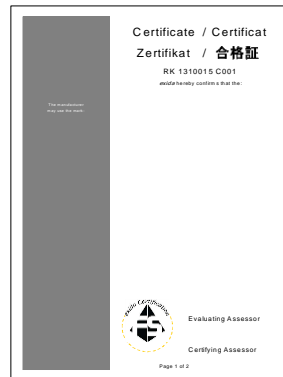
Standard accessories

- Magnetic control key

Optional accessories

- Calibration cap
- Sun shade cover (For pole stand)
- Sun shade cover (For wall)

SIL CERTIFICATE



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