



RIKEN KEIKI

TRANSMITTER TYPE GAS DETECTOR

Model SD-1EC



Features

- Explosion class Exd IIC T6 Gb (DEKRA 13ATEX0035 X / IECEx DEK 13.0024X)
- IP65/67 ingress class
- 4-20mA linear outputs
- Small, rugged, dust and weather proof construction
- One man maintenance by magnetic key
- Self diagnosis by microprocessor

RIKEN KEIKI Co.,Ltd.

Specifications

Model	SD-1EC
Detection principle	Electrochemical type
Gas to be detected	CO/H ₂ S
Concentration display	Seven-segment LED (four-digit)
Detection range	CO: 0-75 ppm/H ₂ S: 0-30 ppm (Standard)
Detection method	Diffusion type
Alarm setpoint value	Depends on target gases
External output	4-20mA
Alarm delay time (under the same conditions)	Approx. 30 seconds when exposed to gas concentration of 1.6 times alarm level
Gas alarm type	One-step alarm (L)
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 system	3-wire type analog transmission (common cable for power and signal <power, signal, common>)
Transmission specifications	4 - 20 mA DC (linear/load resistance under 300 Ω, resolution divided into 200)
Transmission cable	CVVS1.25 sq - 3-core or CVVS1.25 sq - 5-core (when the contact is used)
Transmission distance	Below 1.25 km
Power supply	24 VDC (17 – 26.4 VDC)
Power consumption	Maximum 1.1 W
Cable connecting port	Pressure proof packing gland
Initial clear	Approx. 25 seconds
Operating temperatures	-20 - +60°C (at a constant condition)
Operating humidity	30-80% RH (Non-condensing)
Structure	Wall mounting type
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	Exd IIC T6 Gb
Explosion-proof certification number	DEKRA 13ATEX0035 X / IECEx DEK 13.0024X
External dimensions /Weight	Approx. 148 (W) x 203 (H) x 88 (D) mm (projection portions excluded) Approx. 2.2 kg

Standard accessories

- Magnetic key

Optional accessories

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

