RIKEN

Non-Dispersive Infrared Absorption (NDIR)

SMART TRANSMITTER/ INFRARED GAS DETECTOR

Flame-proof

MODEL

SD-703RI

SD-703SC-RI (Remote type)

DIGITAL DISPLAY

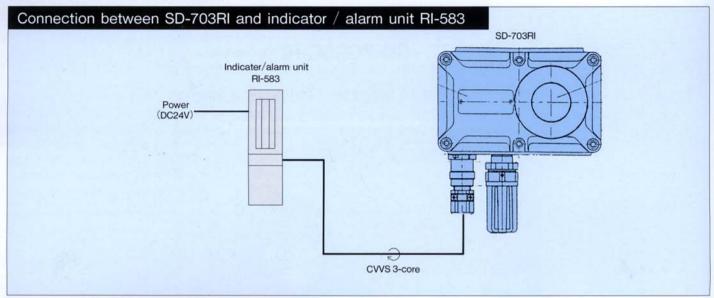
For monitoring of Methane (CH₄) or Hydrocarbon (HC)

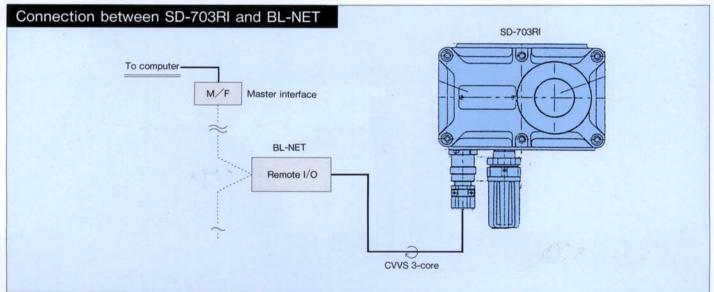


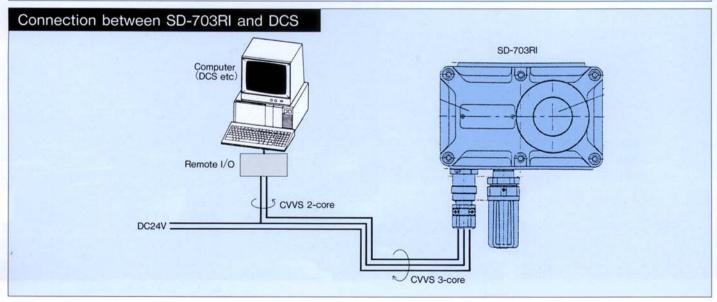


(((VERSATILE CONNECTION CAPABILITY)))

SYSTEM APPLICATION



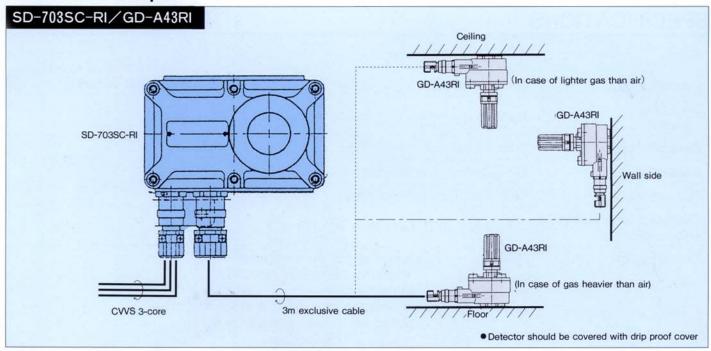




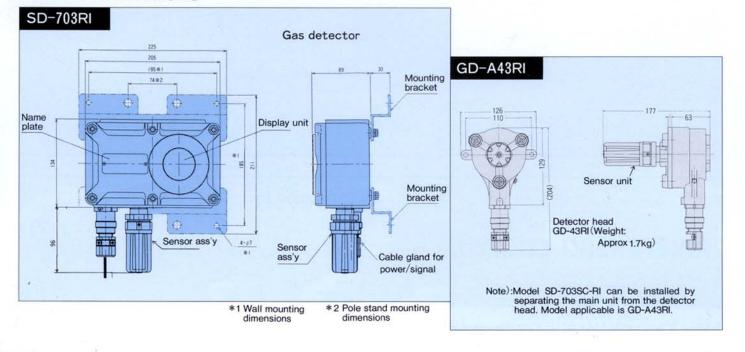
Measurable gas and ranges

Measurable gas		Measurable range	Minimum graduation / digit
Methane	(CH₄)	0~100%LEL	0.5%LEL
Ethane	(C ₂ H ₆)	0~100%LEL	0.5%LEL
Propane	(C₃H ₈)	0~100%LEL	0.5%LEL
i-Butane	(i-C ₄ H ₁₀)	0~100%LEL	0.5%LEL
n-Hexane	(n-C ₆ H ₁₄)	0~100%LEL	0.5%LEL

Installation sample



OUTER DIMENSIONS



Overview

Riken Models SD-703RI and SD-703SC-RI detect combustible gases (methane (CH₄) or general hydrocarbons (HC)) using the Non-Dispersive Infrared (NDIR) method. NDIR detection offers virtually no interference from other types of combustible gases (H₂, FLON, etc.) and is the ideal choice for environments hostile to conventional catalytic sensors—silicon-containing and corrosive gases.

The compact sensor connects directly to the main control housing (Model SD-703RI) or can be mounted remotely (Model SD-703SC-RI). Calibration adjustments are made through the control housing window using the included magnetic control key. This keeps the explosion-proof housing shut during normal adjustments, allowing for greater flexibility in maintenance scheduling.

Both models work with a standard Riken alarm/indicator unit, and can be easily added to existing systems. The output is a standard 4 - 20 mA signal and is readily integrated into BL-NET and computerized data collection systems.

Standard accessories

Sun-shade cover ·····1	box
Fuse (1A)1	рсе
Magnetic control key ·····1	рсе

Optional accessories

- *Box type drip-proof cover
- * Aspirator unit
- *Calibration gas kit
- * Pole stand

SPECIFICATIONS

Model	SD-703RI	SD-703SC-RI/GD-A43RI 〈Remote type〉	
Detection gas	Methane (CH₄) or Hydrocarbon (HC	Specify CH₄ or HC when ordering>	
Detection principle	Non-dispersive Infrared Absorption (NDIR)		
Detection range	0-100%LEL		
Accuracy	Less than \pm 5% of full scale		
Response time	Less than 30 sec to get T60		
Operating temperature and humidity	-10°C to+40°C, Less than 95%RH		
Output signal	4-20mA·····Output of gas concentration (Resistive load, less than 300Ω) 0.5mA·····At malfunction 2.5mA·····At maintenance mode & initial operation Note: MAX 22mA (with limiter)		
Power requirement	DC 24V ± 10% (Power consumption : MAX 4W)		
Structure	Explosion-proof (Flame-proof) ExdIIBT4		
Applicable cable	CVVS 3-conductor cable	3 m exclusive cable between model SD-703SCRI and model GD-A43RI	
Transmission distance	Distance between indicator/alarm unit and detector Max 1.25 km by CVVS 1.25 sq cable Max 2.0 km by CVVS 2.0 sq cable		
Dimensions & weight	Approx 205(W) x 134(H) x 89(D)mm, Approx. 4.3kg		

Specifications subject to change without notice





ISO 9001:2000

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