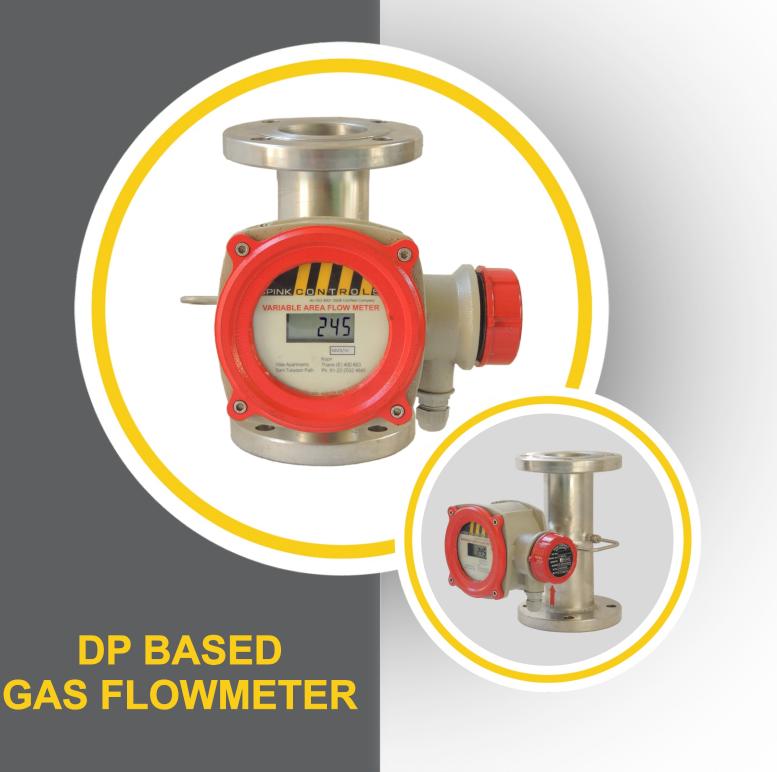
An ISO 9001:2015 Certified Company

®



MODEL: SC / R - 1600

FLOW

DP BASED GAS FLOWMETER

MODEL: SC/R-1600



Spink Controls DP-based Gas Flowmeter is specifically designed to measure the flow of clean gases that are noncorrosive to silicon. The differential pressure (ΔP) is measured using a high-precision piezoresistive pressure-sensing element, where the applied pressure is converted into a differential voltage signal, approximately proportional to the pressure: V_{C} $\alpha \Delta P$

This signal undergoes multi-stage correction and conditioning to derive the gas flow rate. Using the standard flow equation:

$$Q = C \sqrt{\frac{\Delta P}{\delta}}$$

Where:

Q = Flow rate

C = Flow coefficient

• ΔP = Measured differential pressure

δ = Gas density

APPLICATIONS

- ➤ Gas flow measurement in process industries
- Monitoring of compressed air, nitrogen, and other clean gases
- > HVAC systems, cleanroom monitoring, and research applications

KEY FEATURES

- \triangleright Accurate and stable piezoresistive $\triangle P$ sensing technology.
- ➤ Multi-stage signal correction for improved measurement precision.
- Suitable for clean, non-corrosive gases.
- Compact, rugged construction.

Compatible with standard industrial flow monitoring and control systems.

ENGINEERING SPECIFICATION

TYPE : DIFFERENTIAL TYPE

ACCURACY : +/- 1% of FSR

RANGEABILITY : 10:1
REPEATABILITY : +/- 0.25%
PRESSURE RATING : 2 BAR
TEMPERATURE RATING : 70°C

MOC : SS 304/SS 316

FLOW DIRECTION : HORIZONTAL/VERTICAL

POWER SUPPLY : 18 – 30 VDC

OUT PUT : 2 WIRE LOOP POWERED

ENCLOSURE : FLAMEPROOF / WEATHERPROOF

LINE SIZE : ½" to 12"





MODEL CODING

Suffix Code	1	2	3	4	5	6	7	Parameters
Model Code	SC/R-1600							DP Based Gas Flowmeter
Line Size		XX						15 - 300 NB
Fluid			G					Gas
				F				Flanged
Process Connection				TC				TC End
				S				Screwed NPT/BSP (M/F)
				•	S4			Body & Float SS304
					S6			Body & Float SS316
Material of Wetted Parts					ST			Body & Float PTFE lining
					SL			Body & Float SS316L
					XX			Other on Request
						F1		300 mm
Flange to Flange						F2		400 mm
						F3		500 mm
Enclosure							FL	FLAMEPROOF
LIIGIOSUIE							WP	WEATHERPROOF





SPINK C O N T R O L S

Head Office

303, SIDDHARTH TOWER, G.P. PAI ROAD,

KOPRI, THANE(E) - 400 603 MAHARASHTRA, INDIA

Fax : +91 22 2532 4845 Phone : +91 22 2532 8223 +91 22 2532 8224

Email : info@spinkcontrolsindia.com

Plant

GALA No. F-4 A WING, UDYOG BHAVAN-2 ADDITIONAL AMBERNATH, INDUSTRIAL AREA, ANAND NAGAR MIDC AMBERNATH,

Dist - THANE 421501

Phone : +91 9594991196

Email: rupa.thakkar@spinkcontrols.com







