

The Need For Every
Process Industry

SPINK CONTROLS[®]

An ISO 9001:2008 Certified Company



ELECTROMAGNETIC FLOWMETER

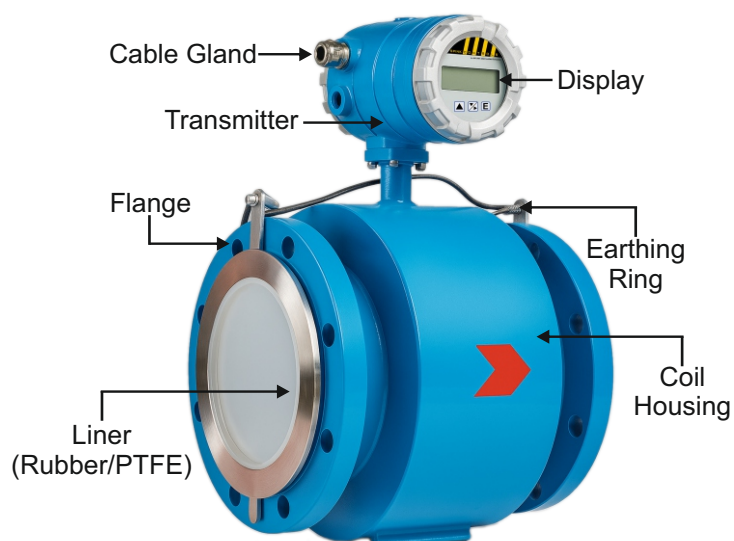
MODEL: SC / R - 600

Electromagnetic Flowmeters are based on Faraday's Law of Electromagnetic Induction. In an Electromagnetic Flowmeter, the magnetic field is generated by a set of coils. As the conductive liquid passes through the electromagnetic field, an electric voltage is induced in the liquid which is directly proportional to its velocity. This induced voltage is perpendicular to both, the liquid flow direction and the electromagnetic field direction.

FLOW

ELECTROMAGNETIC FLOWMETER

MODEL : SC / R - 600



Spink Electromagnetic flowmeter is designed for measuring and indicating flow & total volume of conductive liquids. As there are no moving parts in the flow profile the device can be used to measure extreme dirty liquids containing solids. The flowmeter is used for conductive liquids only. The flowmeter has been designed for use in all process industries including chemical, water & wastewater.

ENGINEERING SPECIFICATION FOR ALL R - 600 SERIES



Parameter	SC / R - 601	SC / R - 602	SC / R - 603	SC / R - 604
Nominal dia(mm)	10 to 3000	10 to 200	10 to 1000	100 to 3000
Working Pressure (kg/cm ²)	10,16,25,40	5	16,16,25,40	20
Working Temperature	Integral PTFE - 120°C Remote PTFE - 180°C Other - 70°C	Up to 55°C	PTFE - 120°C Rubber - 55°C	Up to 120°C
Electrode Material	SS316 Std*	SS316 Std.*	SS316 Std.*	SS316 Std.*
Sensor Lining	Std. Rubber	NA	Std. Rubber*	NA
Display Version	Integral Remote	Integral Remote	Integral / Remote	Integral / Remote
Measuring Tube Material	SS 304 Std*	HDPE	Ss304 Std.	SS316 Std.
Sensor Housing Material	Std CS*	HDPE	Std.CS*	NA
End Connection	Flange/Water/Tri-clamp/SMS	Flange	Flange/Water/Tri-clamp/SMS	NA
Flange - Standard	ANSI 150*	ANSI 150*	ANSI 150*	NA
Measuring Range	0.2 to 12 m/sec. Bidirectional	0.2 to 12 m/sec. Bidirectional	0.2 to 12 m/sec. Bidirectional	0.2 to 12 m/sec. Bidirectional
Accuracy %	±0.5% (+0.2 Consult Factory)	±1%	±0.5%	±2%
Repeatability	±0.2% of scan	±0.2% of scan	±0.2% of scan	±0.2% of scan
Display	2 line LCD	2 line LCD	4 line LCD	2 line LCD
Display Units	All Standard Engineering Units in m ³ , Liter, Gallon, ft ³ , Imperial Gallon	All Standard Engineering Units in m ³ , Liter, Gallon, ft ³ , Imperial Gallon	All Standard Engineering Units in m ³ , Liter, Gallon, Pressure - kg/cm ²	All Standard Engineering Units in m ³ , Liter, Gallon, ft ³ , Imperial Gallon
Output	Std 4 - 20 mA, pulse relay	Std 4 - 20 mA+, pulse relay	pulse relay	Std.4 - 20mA, pulse relay
Power Supply	12 - 60 V AC/DC or 80 - 300 V AC/DC wide supply, Solar supply	12 - 60 V AC/DC or 80 - 300 V AC/DC Solar Powered	Battery Powered 5 Years Battery Life	12 - 60 V AC/DC or 80 - 300 V AC/DC Solar Powered
Protection Class for Sensor	Std. IP 67 Option IP 68 or flow tube in remote type	Std. IP 67 Option IP 68 or flow tube in remote type	Std. IP 67 Option IP 67 / IP 68 for flow tube in remote type	Std. IP 68
Protection Class or Transmitter	IP 67	IP 67	IP 67 / IP 68	IP 67
Cable Length for Remote	Std.10 m	Std.10 m	Std.10 m	Std.10 m
Installation	Inline flanged type	Inline flanged type	Inline flanged type	Insertion type with use of isolation ball valve Assembly on pipeline.

MODEL SELECTION

Suffix Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Parameters
Model Code	SC/R-601																	Engineering Specification table to choose
	SC/R-602																	
	SC/R-603																	
	SC/R-604																	
Line size		XX																From 10 - 3000 NB
Transmitter type			I															Integral
			R															Remote
Power Supply				P1														12 - 60 V DC
				P2														80 - 300 V DC/AC
				P3														Battery Powered
				P4														Solar Powered
Output					O1													4 - 20 mA
					O2													4 - 20 mA + Relay (1 No.)
					O3													4 - 20 mA + Relay (2 No.)
					O4													4 - 20 mA + digital Input with batch Relay
					O5													4 - 20 mA + Digital Input
					O6													Not Applicable
Communication Interface						C1												RS 485 (Modbus RTU)
						C2												HART
						C3												GPRS
						C4												Ethernet
						C5												RS 485 (Modbus RTU) + HART
						C6												Not Applicable
Data Logger							DL1											Build in
							DL2											External
							DL3											Not Applicable
Process connection								F										Flange
								T										Tri Clover
								B										BSP Threaded
								W										Wafer
								S										SMS
								XX										Other on request
Process connection MOC								S4										SS 304
								S6										SS 316
								SL										SS 316L
								CS										CS
								HP										HDPE
Sensor lining MOC									S1									Hard Rubber
									S2									Neoprene
									S3									PTFE
									S4									Polyurethane
									S5									EPDM
									S6									Not Applicable
Sensor Housing MOC									SH1									CS
									SH2									HDPE
									SH3									Not Applicable
Electrode Material										E1								SS 316
										E2								SS 316L
										E3								Hastelloy C
										E4								Titanium
										E5								Tantalum
										E6								Platinum
										E7								SS Duplex
Coil Housing MOC											H1							Carbon Steel
											H2							SS 304
											H3							SS 316
											H4							SS 316L
											H5							HDPE
Measuring Tube MOC												T1						SS 304
												T2						SS 316
												T3						SS 316L
												T4						HDPE
Earthing Rings MOC													R1					SS 316
													R2					Hastelloy C
													R3					None (Earth Electrode)
													R4					Not Applicable
Cable Length																XX		10 - 80 mtr.
																NA		Not Applicable
Protection Class for Sensor																	67	IP 67
																	68	IP 68



SPINK CONTROLS®	
Head Office	Plant
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	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

