

SMART FLOW METER CATALOGUE





Our Smart Turbine Type / Electromagnetic type Flowmeter Is of Perfect Performance And Reliability. Based on the successfully Proven Smart Flow Technology of AQUASENSE, the flowmeter is widely used in industries of cement, petroleum, chemical engineering, iron and steel, food electric power, paper making, water treatment, petrochemistry & medicine etc.

FEATURES

Measurement is independent of fluid density, humidity, temperature, pressure and conductivity. There are no obstacle elements in the conduit, no pressure droppage, the requirement of straight pipe is low. The sensor with advanced processing technology is of nice resistance to negative pressure. The liquid crystal display in the converter of smart series Magnetic flowmeter makes it easy to read in the sun or in the dark room. In bad environment parameters can reset up through the infrared ray touch knobs without opening the cover of the converter. The converter has alarm output function of self-diagnosis, empty load test high and low limit of the flow, two-stage flow value, etc. not only apply in generally process test but also in the test of the mineral serosity, paper pulp as well as pastry liquid. High pressure type electromagnetic flow sensor adopting PFA lining technology which is resistant to high pressure and negative pressure is especially applicable in industries of oil, chemistry, etc.

PERFORMANCE SPECIFICATIONS

- RS 485 Output SCADA / TELEMETRY ENABLED
- Nominal Pressure: 0.6~4.0MPa
- Accuracy: + 0.5% of the value displayed, +0.3% or +0.2% are optional
- Liner Material: Teflon, PFA, F46, Neoprene, Polyurethane
- Electrode Type: General type, Scraper type and Replaceable type
- Electrode Material: SS316, Hastelloy B, Hastelloy C, Titanium,
- · Tantalum, Platinum-iridium, stainless steel covered with tungsten.
- Medium Temperature Integral type: 100C +800C
- Remote Type: Neoprene & Polyurethane Liner --- 100C +800C
- PTFE, PFA, F46 Liner 100C +1600C
- Ambient Temperature: 250C+600C
- Ambient Humidity: 5~100%RH (Relative Humidity)
- Medium Electrical conductivity: > 5.0 s/cm
- Measuring Range: 1500:1, flowrate< 15m/s
- Structure Type: Integral type, remote type, submersible type, ex proof type.
- Protection Class: IP65, IP68 (optional), IP65 Dustproof and
- Watertight: IP68 Dustproof and submersible for long (only for remote type)
- Output signal: 4-20mA, Pulse, RS 485 MODBUS SYSTEM



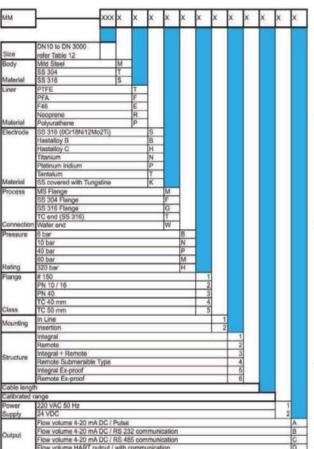
The measured liquid must be conductivity liquid of serosity of which the conductivity should be more than 50 s/cm the medium should not contain much magnetic matter of air bubbles. Pressure grade lining material, electrode material and structure type should be selected according to the medium's temperature corrosiveness, abrasion, etc. Normally the sized of flow meter should be the same as the pipe diameter.

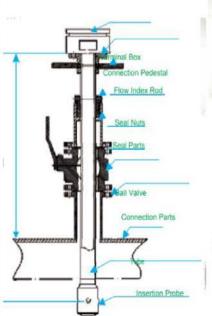


Main performances of the electrode materials

Liner Materiral	Main Performances	Applications
PTEF	The most steadiest material in plastics which is resistant to boiling hydrochloric acid, vitriolandaqua fortis as well as strong alkali and organic impregnants. Not be perfect in abrasion resistance.	Strong corrosive mediums such as strong acid and alkali
PFA	Having the same abrasion resistance with PTFE. Having strong ability of load pressure resistance.	Applicable in state of load pressure
F46	Having the same abrasion resistance with PTFE. Resistable for low abrasion. Having strong resistance to load pressure.	The same as PTFE. Applicable in mediums of low abrassion.
Neoprene	Be of good elasticity, refractivity and abrasion resistance. Be resistant to low acid, alkali and salt but not for oxidation mediums.	Water, sewage and slurry, mineral serosity of low abrasion.
Polyurethane	Be of good abrasion resistablity (equal to 10 times of caoutchoue). Not be perfect in acid/alkali resistance. Can't be used for water mixed with organic impregnants.	Applicable in mineral serosity, slurry and coal slurry of high abrasion.







Measuring Noddle



Available Line sizes

Flow Range(m'/h) at 0.3 ~ 10 m/s

0.06~2.00

0.20 = 6.40

1.40 ~ 45.2 2.00 ~ 70.7 3.58 ~ 119 5.43 ~ 181

8.48 ~ 282

19.08 ~ 636 33.9 ~ 1131

53.0 ~ 1767

76.3 ~ 2544

103.9 * 3463

212.0 ~ 7069

687 ~ 22902 848 ~ 28274

Line Size

(mm)

GPRS / Telemetry Unit for Data Transmission

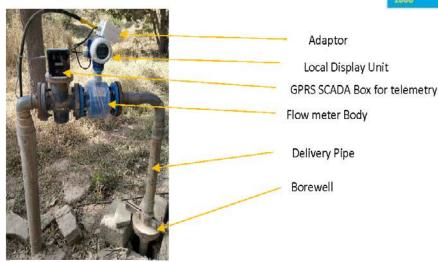


	CSM & GPRS Transmitter
Transmission System	CSM/GPRS/EXXE-based data transmission system
Frequency coops	900 MHz. 804-960 MHz/1800MHz.1710-1880 MHz-9G or bester
Performence	Data Reception availability of BSLice hetter.
Communication Direction	Utilize OPRS network for two way connection with FTP server TCP-IP (INTERNET) connection and SNS
Turnision tigger	Data collection to be triggered by interrogation from Data Center, or by event-based transmission framework by reside set:
Pewer Saring	Ability to duable interrogation system in order to save power at resiste sets
Communication Protectal	HTTP, MQTT to removed data to the Data Server
Accessive	All associated equipment, mounting hardware, Sensor to CPFS Transmitter cable, Antonia, well cap and mounting shorts for installation.
	Software for Data Lagger
	Windows in tware the system configuration, transfer and analysis of
Optioning System	data to computer
Venns	English language version
Lionae	All required licenses included

Flow meter Dashboard – Can be accessed on Any internet enabled device through USER ID/ PASSWORD



Aquasense
Flow meter
with
Telemetry –
On Site
installation



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301,3RD FLOOR,MARVEL RESIDENCY, NANDA
PATKAR ROAD EXTENSION,VILE PARL{EAST}

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