

G-50

GSM FLOWMETER



FEATURES

- Advance GSM Technology and simplicity.
- Protection Structure IP 65.
- Password Protected Meter.
- Display Total Rate.
- Output through SMS as per set schedule
- Cost effective.
- Lower installation and maintenance cost.

- Sending through GSM/CDMA Network.
- Maximum 3 SMS .
- SMS Schedule – Max. 1 SMS/HR

GENERAL DESCRIPTION

G-50 is another step to deliver superb Technology and convenience. G-50 is equipped with GSM MODEM. Compact package to suit the growing needs of Water Finance industry. Our IP 65 grade enclosures make our flow meter versatile on both Panel & Field uses, increasing the efficiency plant. G-50 can send SMS anywhere in country. Being it battery operated can be installed in any remote area. This product is combination of Deep study and contribution in Flow measurement.

TECHNICALS

Technical Data		Electrical Connection ratings	Material
Function:	Rate+Totalizer	Power supply: 3 V DC Battery Operated	Meter Housing: ABS
Flow Rate:	1 To 5 m/s	Current: 500 mA	protection: IP-65
Linearity:	+/- 1%	Input: From VATS Sensor	weatherproof
Enclosure		Output: Through SMS as scheduled	
Repeatability:	+/- 0.5 %	Display: 7 Digit alphanumeric (backlit)	
Mounting:	Online	Cable Type: 2 Core PVC Shielded	
		Battery Life: maximum 2000 SMS.	

APPLICATIONS

energy

agriculture

Water audit

Paper and pulp

food and beverages

Waste water

power

textiles

JT-121

Insertion Plastic Paddle Wheel Flow Sensor



Insertion Paddle wheel

FEATURES

- Four bladed paddle for optimal performance.
- Open cell design for linear and repeatable output.
- Dynamic range with virtually no pressure drop.
- Corrosive resistant plastic for aggressive fluids.
- Wide choice of installation Fittings.
- Lower installation and maintenance cost.

GENERAL DESCRIPTION

JT-121 is paddle Wheel type Polymer body Flow sensor suitable for clear liquid application. Being light weight and compact, Installation is easiest, still robust. **Vats JT-121** is most simple and most economical flow sensing device for clear liquids. Proven and long lasting bearing materials has made this sensor a common choice of all OEMs. With proper installations, sensor achieves overall accuracy of +/- 2 even if 1% solids are present in the fluid. **JT-121** sensor can be installed in wide range of pipe sizes. Variety of materials is available in installation fittings like ABS, PVC, MS, and SS. These fittings include Tees, Saddles, with specific Weld Ends, Thread Ends or Flange Ends and Weldon Adaptor.

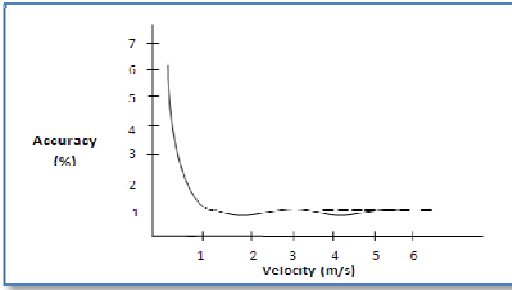
TECHNICALS

Technical Data		Electrical Connection ratings		Material	
Flow Rate:	1 To 5 m/s	Current rating:	< 10 mA	Sensor Body:	PP
Linearity:	+/- 1 %	Output Voltage:	Pulse O/P	Paddle:	Delrin
Repeatability:	+/- 0.5 %	Output Signal:	NPN/PNP	PIN:	T.C
Temperature range:	0 to 50°C	Cable Type:	2 Core PTFE Shielded	O Ring:	Silicone/Viton
Pressure range:	upto 5 bar			Protection Rating:	IP-65
Viscosity Range:	upto 20 cpc				

APPLICATIONS

<i>water treatment</i>	<i>agriculture</i>	<i>construction</i>
<i>paper and pulp</i>	<i>food and beverages</i>	
<i>oil</i>	<i>power</i>	<i>textiles</i>

ACCURACY DIAGRAM and LINE SIZE SELECTION CHART

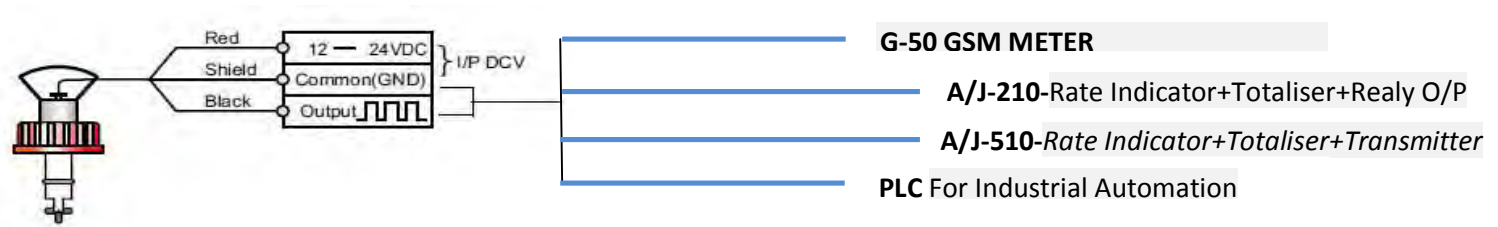


Pipe size(NB)	15	25	40	50	65	80
Min flow M ³ /Hr	0.2	0.8	1.9	3.5	5.8	7.5
Maxflow M ³ /Hr	2.1	8.0	19	35	58	75
Pipe size(NB)	100	125	150	200	250	300
Min flow M ³ /Hr	14	22	31	56	87	126
Maxflow M ³ /Hr	140	220	310	560	870	1260

Overall accuracy of +/- 2 % the reading for 10-100 % of Flow Range & +/- 5% for 0-10 % of flow Range.

ELECTRICAL WIRING

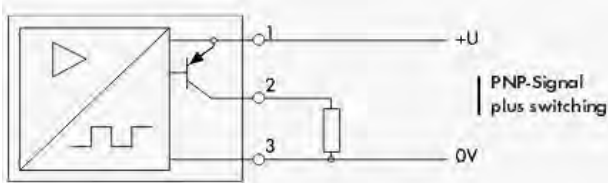
Variety of Electronic Readers cum controllers are available.



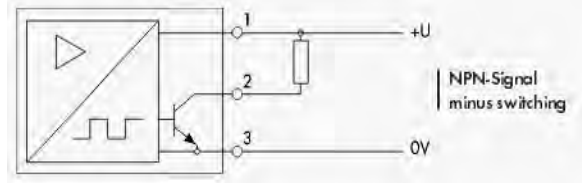
A : Field Mounted Indicator , J : Panel Mounted Indicator

For Battery Operated Active Sensor please contact the Factory.

Connection : PNP Switching



Connection : NPN Switching



MECHANICAL

Straight inlet and outlet distances that must be maintained when installing fittings in pipe lines in order to achieve turbulent flow conditions. The most important layouts that could lead to turbulence in the flow are shown below, together with mentioned minimum and inlet and outlet distances. These insure turbulent, problem-free measurement conditions at the measurement point. For more Installation guidelines please refer manual. for best results Reynolds number (R) is greater than 5000 especially for viscous liquids. to Calculate R use following formula

$$R = \frac{7741 \times ID(\text{Inches}) \times \text{velocity}(\text{Feet/sec})}{\text{Viscosity}}$$

NOTE:

- 1. In Vertical Piping only Upstream flow is recommended.**
- 2. Flow Meter should be installed before valve.**
- 3. Y type strainer is must for recommend result.**
- 4. Filter before sensor is must for better accuracy.**

