



**VATTURKAR
INDUSTRIAL**



Authorised Distributor



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Digital Flow Meter
Digital Conductivity Meter

About us

VATTURKAR INDUSTRIAL is the leading manufacturer of digital Flow & Conductivity meters in India for last 12 years. Our meters are user friendly. Operator can easily install & recalibrate the meter on-line. Our meters are proven one in harsh Industrial environment and are service free unit based on state-of-the-art advance Microprocessor Technology.

We manufacture both Field Mounted as well as Panel Mounted meters. Our meters come in different forms

- Standard Panel Mounted
- Field Mounted Type:- Specially designed IP-65 enclosure to suit open atmosphere Industrial Conditions.

Applications

- ▶ Water Treatment Industry
- ▶ Pharmaceutical Industry
- ▶ Beverage/Distillery Industry
- ▶ Bottling Industry
- ▶ Oil/Refining Industry
- ▶ Ready Mix Concrete Plants
- ▶ Automatic Liquid Dispensers
- ▶ Chemical Industry

Principle of Operation

VATS Flow-meters are based on Paddle Wheel Insertion Type Sensor. This technology is adopted by many manufacturers worldwide. These flow-sensors work on "Faraday's Law Of Electro-magnetic induction."

The rotating paddle wheel generates a signal in proportional to the velocity of the moving fluid which is read in terms of the flow-rate. As the cross section area is known and remains fixed the average velocity is an Indication of the Flow-rate.

VATS Flow-Sensor : JT121



TECHNICAL SPECIFICATION

Flow-rate range	: 0.5m/sec to 5m/sec.
Accuracy	: +/- 1% of full scale deflection
Input Voltage	: 3.4 to 24 VDC
Output Voltage	: Square wave (Sinking) 30--35 Hz/meter/second
Cable length	: 3 meters
Protecting Rating	: IP-67
Operating Temp.	: with P.P. Sensor upto 70°C with PVDF / SS Sensor - upto 100°C

MATERIAL OF CONSTRUCTION

	Body	Paddle /Rotor	Pin/Shaft	"O" Ring
Standard	PP	PVDF	Steel Shaft	Viton
Optional	PVDF/SS316	PVDF	Steel Shaft	Viton/PTFE

VATS flow-sensors gives excellent results in a flow-velocity range 0.5m/sec to 5.0m/sec. For best results it is necessary to provide straight run of 10D & 5D after the fitting (Refer Users Manual).

For the sensor to sense the flow properly, it is important that the flow is developed turbulent i.e. the reynolds number $Re \gg 5000$.

Line Size Selection (Water) : Min/Max Flow Rates

Pipe-Size(NB)	15	25	40	50	65	80	100
Min Flow(M3/Hr)	0.2	0.8	1.9	3.5	5.8	7.5	14
Max Flow(M3/Hr)	2.1	8.0	19	35	58	75	140

For higher line sizes contact the manufacturer

MODEL SELECTION CHART

- A-110** :- Digital Flow-rate Indicator (Field)
- A-210** :- Digital Flow Totalizer + Batcher + Pulsar
+ Rate Switch (Field Mounted Type)
- J-210** :- Digital Flow Totalizer + Batcher + Pulsar
+ Rate Switch (Panel Mounted Type)
- J-510** :- Digital Flow-Transmitter (Panel Mounted Type)

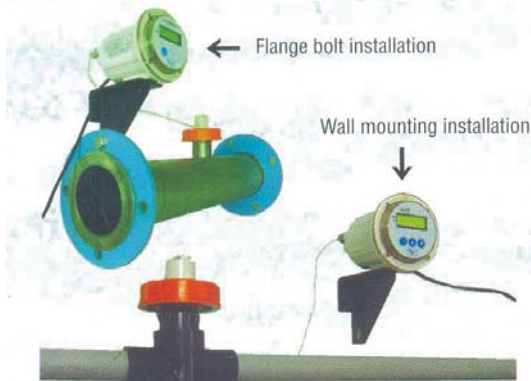
Digital Flow-Rate Indicator : A-110



TECHNICAL SPECIFICATIONS :

- Supply** : 230 VAC, +/- 10% ,50Hz
- Input** : From VATS sensor JT-121
- Accuracy** : +/- 1% of full scale
- Meter Size** : Dia.105mm x 120mm deep
- Display** : 4 Digit alphanumeric with backlit
- Protection** : IP-65

Unique Installation Feature



* With mounting clips it is possible to install in Panel also.

Digital Flow Indicator/Totalizer : J-210



Description:- VATS J-210 Flow totalizer converts the flow-sensor [JT-121] signal into the required units with the help of Microprocessor based electronic module to indicate flow rate, totalized flow, or control a batch or to run a PID controller.

TECHNICAL SPECIFICATIONS OF J-210 :

[Panel Mounted Type]

- Supply** : 230 VAC, +/- 10% ,50Hz
- Input** : From VATS sensor JT-121
- Accuracy** : +/- 1% of full scale
- Cut-out size** : 69 mm x 69 mm
- Display** : 8 x 2 alphanumeric (Backlit)
7 Digit for total & 4 Digit for flow
- Relay Output** : * 1 Mechanical SPDT contacts
5A at 250 VAC max.(resistive load)



VATS J-510 - Flow transmitter is useful for following applications

- For PLC connectivity
- Recording Applications
- Direct Printing options
- Rate Switch for Proportional dosing by using common metering pump.

Digital Flow-Transmitter : J 510



Description : **VATS J-510** Flow transmitter converts the flow-sensor [JT-121] signal into the required engineering units with the help of Microprocessor based electronic module to indicate flow rate, total flow or control a batch or to run a PID controller. 4-20 mA current output is a standard feature. Computer compatibility with RS-232 or RS-485 interface is an add-on feature as optional.

TECHNICAL SPECIFICATIONS OF J-510

[Panel Mounted Type]

Supply	: 230 VAC, +/- 10%, 50Hz
Input	: From VATS sensor JT-121
Accuracy	: +/- 1% of full scale
Cut-out size	: 89 mm x 89 mm
Display	: 8 x 2 alphanumeric (Backlit) 7 Digit for total & 4 Digit for flow
Output	: 5A potential free relay@ 230 VAC 4-20 mA current output [600 Ohm] RS -232/485 (Optional)

Conductivity/TDS Indicator : KI-110



VATS make KI-110 is a field mounted type (On-line) Digital Conductivity Indicator. It comes in IP-65 plastic enclosure. The IP-65 plastic enclosure ensures protection from corrosive, wet, dusty atmosphere. The advanced solid state electronic module gives accurate and repetitive reading. It is very easy to install and to calibrate.

Conductivity Range : 0 to 4, 0 to 40, 0 to 100,
0 to 2000 (Scale is in uS/cm/ppm)

Conductivity/TDS Controller : KT-250



For control applications such as initiation of regeneration of automatic demineralizers, pump tripping or audiovisual alarm, the Panel Mounted Conductivity Controller KT-250 is the best instrument available in the market today. At the set point, relay gets energised.

TDS Indicator/ TDS controller are also available with us.
For more details please contact manufacturer.

Our Valuable Customers

- ▶ ION Exchange (India) Ltd.
- ▶ Thermax Ltd.
- ▶ Hindustan Coca-Cola Beverages Pvt. Ltd.
- ▶ Piddilite Industries Ltd.
- ▶ L & T Ltd.
- ▶ Wheels India Ltd.
- ▶ Kirloskar Brothers Ltd.
- ▶ Nikhil Refineries Ltd.
- ▶ Shalimar Agro Products Ltd.
- ▶ Steel Authority of India Ltd.
- ▶ Rochem Separations Systems Pvt. Ltd.
- ▶ SMD Pumps Ltd.
- ▶ Glenmark Pharmaceutical Pvt. Ltd.
- ▶ A R A I
- ▶ Hero Honda Motors Ltd.
- ▶ Indian Hume Pipe Co.
- ▶ Ajax Fiori Engineers India Pvt .Ltd.

Liquid Dispenser 'PANERA' for Concrete batching



We undertake all types of Automatic liquid dispensers

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