

ECONOMICAL RANGE OF ELECTROMAGNETIC FLOW METER

SMART JAL EC

Model : SJ Ec-100

Description :

Manas have now introduced a new type **SMART JAL Ec** Flowmeter. **SMART JAL Ec** meter's are commonly used in Treated Effluent, Sewage water, Waste water etc. This type of flow meters also work on the **FARADAY'S LAW OF ELECTROMAGNETIC INDUCTION**.

The equation is,

$$E = B.V.D$$

Where,

E = Induced voltage [proportional to velocity]

B = Magnetic flux density

v = Mean velocity of the media

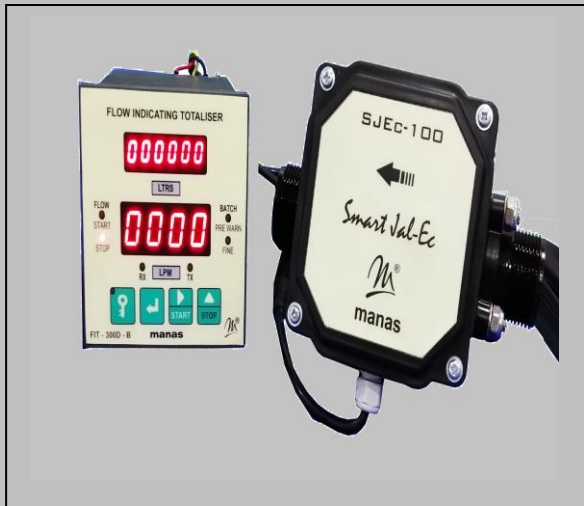
d = Diameter of flow-sensor (distance between the sensing electrodes.)

Features :

- No moving parts.
- Economically Priced.
- Do not require much upstream and downstream straight Lengths.
- Very fast Operation / small response time.
- Long life hence cost effective.
- Engineered in PP.
- Flowmeter does not obstruct flow, so it can be applied to clean, sanitary, dirty, corrosive liquids.
- Fully Vibration proof.

Technical Specifications:

1. Meter Size : DN32 to DN50
2. End Connections : Threaded, BSP (M).
3. Protection Class : IP66
4. Cable Entries : 2 no. for Integral transmitter.
1 no. for Remote transmitter.
5. Media Conductivity : $\sigma \geq 20\mu S / cm$
6. Display :
For Integral : 16X2 rows LCD Display For Instantaneous Flow Rate, Totaliser, Engineering Units, Fault messages.
For Remote : 6 Digit, 0.3", 7 segment LED for for Totalisation.
4 Digit, 0.5", 7 segment LED for for Flow Rate Indication.
7. Output : Pulse o/p \propto flow rate
A] Pulse output open collector NPN OR
B] 4 - 20mA dc, in max. 600 Ω load, Isolated, Proportional to flow rate.
8. Accuracy : $\pm 1\%$ of Actual Flow Rate between 100 % to 10 % Flow Rate
9. Media Pressure : 10 Bar
10. Empty tube detection : Provided
11. Power Supply : 230V ac / 110V ac, $\pm 10\%$, 50 Hz, S.P



ORDERING INFORMATION :

FLOW METER SIZE

DN32	:	1 ¼"
DN40	:	1 ½"
DN50	:	2 "

ELECTRODE MATERIAL

SS316	:	Stainless Steel
HAST C	:	Hastelloy C

END CONNECTION

1 ¼" BSP	:	1 ¼" BSP Threaded (M)
1 ½" BSP	:	1 ½" BSP Threaded (M)
2" BSP	:	2" BSP Threaded (M)

TRANSMITTER TYPE

2D	:	Instantaneous Flow Rate & Total
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OUTPUT

P	:	Pulse Output
C	:	4-20 mA DC

COMMUNICATION PORT (Only RMT)

RS2	:	RS232
RS4	:	RS485
NA	:	Not Applicable

TRANSMITTER MOUNTING

INT	:	Integral
RMT	:	Remote

POWER SUPPLY

01	:	110 V AC
02	:	230 V AC

DN50 SS316 2" BSP 2D C NA INT 02

Sample Ordering Information

* Specifications are subject to change without prior notice.

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