



Rotameter

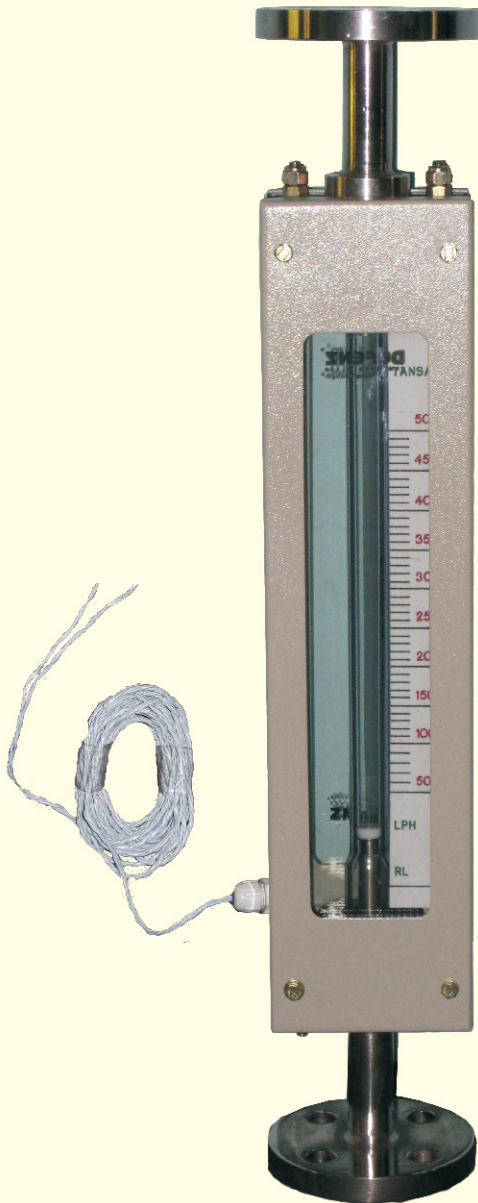
Glass tube with transmitter

Operating Principle

Glass Tube Rotameter is basically a Variable Area Flow Meter. The differential pressure across the annulus area is constant and the flow rate is measured as a function of the annulus area. This area is displayed as the position of a "Float".

Standard Features

- Various Material of Construction
- Line Size from 15 NB to 80 NB
- Heavy Duty Design with Maximum Visibility
- Ranges between 2.0 LPH to 25000 LPH
- Two Tone Powder Coated Excellent Finish
- No Threads in Body, Avoids Corrosion
- Face-To-Face Distance : 500 mm
- Accuracy : +/- 2% of Full Scale
- Easy to Maintain and Replace
- Suitable for on Line Installation
- Measuring Span : 1:10
- Glass : Borosilicate
- Linear Scale
- Slip on Flange - facilitates change in line of sight
- Single Piece (jointless) PTFE / PP claded end connections
- Float is provided with PTFE Indicating Ring which minimizes breakage of Glass Tube



Tansa Equipments Pvt. Ltd.

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We also manufacture Metal Tube, Purge type, Acrylic body, by - Pass Rotameters & Orifice Assy.

• Due to continuous development specifications are subject to change without prior notice.

CAT No. - GTR-Tx-1-010412



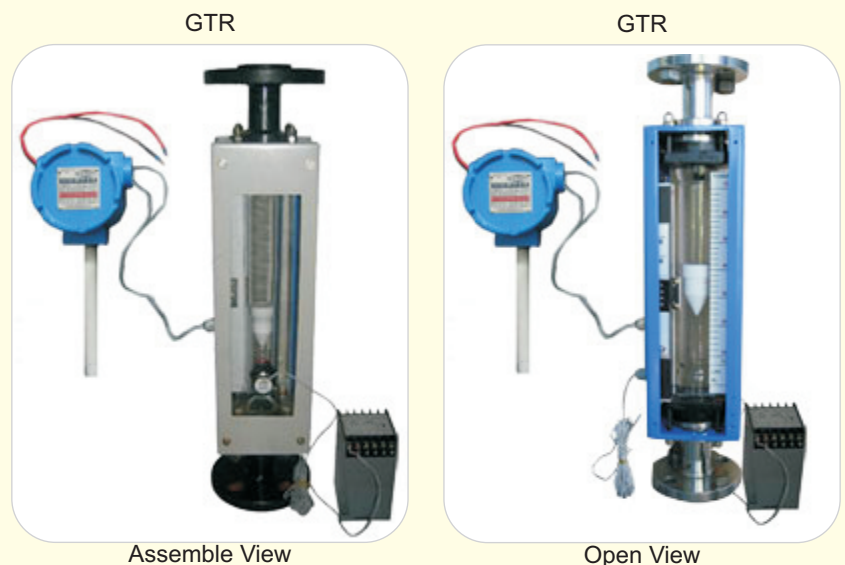
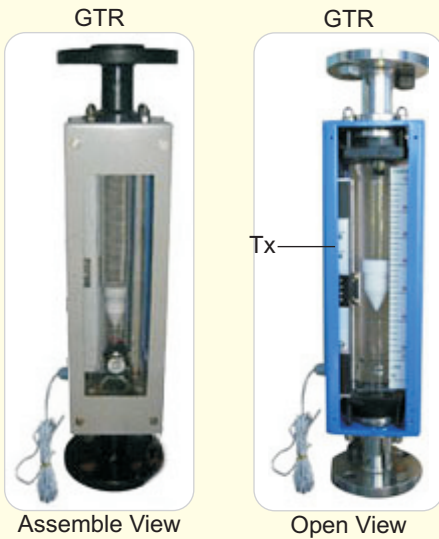


Rotameter

Glass tube with transmitter

Model : GTR-Tx

Model : GTR-Tx-Haz



"As per IS norms out stand alone sensor is "Simple Device", therefore it can be installed in hazardous area and needs no separate certification"

Glass Tube Rotameter is a low cost flow Indicator with low pressure drop. It can be scaled to cover flow from 10 LPH to 25000 LPH. It does not need any power to indicate the flow rate.

With increasing automation in the industries more and more parameters are being transmitted as electrical signals. Modern advanced flow transducers such as Magmeter or Coriolis do transmitter the signal but they are very costly. Glass Tube Rotameter is a low cost instrument and up till now there is no transmitter on it. Tansa has developed an add-on transmitter for Glass Tube Rotameter. Transmitter has been designed for almost all glass tubes and it is mounted on the glass tube by nylon straps. Transmitter fits on the side of the glass tube while retaining visibility and the present local indication by the float and the scale.

Transmitter out put is two wire loop powered. A long wire is bought out from the enclosure through a cable gland which can be terminated out side in the junction box.

Operating principle

The usual Teflon or SS float of the Rotameter is changed to magnetic float, without affecting calibration. The float movement is sensed from the magnetic field coming out through the glass tube this is then converted to 4-20 mA signals.

Input / output Specifications

- 1) In-Put: - Vertical Displacement of the magnetic float proportional to flow.
- 2) Out Put: - 4-20mA DC in max 600 Ω loads proportional to Flow rate.

General Specifications

- 1) Mounting: - On Glass tube inside the box by nylon Strap.
- 2) Enclosure: - Aluminum Extruded Tube.
- 3) Dimensions: - 20 x 20 x 250 mm
- 4) Power Supply: - 24VDC +/- 10% - 4-20mA loop Powered.
- 5) Operating Ambient Temperature: - 0-50°C
- 6) Humidity: - 90% RH maximum non condensing
- 7) Accuracy: - +/- 2% of full scale for Flow rate from 10 to 100% Input.
- 8) Temperature drift: - 0.04% / °C maximum of full scale.
- 9) For GTR-TX-HAZ - "As per IS norms out stand alone sensor is "Simple Device", therefore it can be installed in hazardous area and needs no separate certification"



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