

**SAP E&C ORIFICE, VENTURY ROTAMETER TRAINER  
i.e. SETUP FOR CALIBRATION OF FLOW METERS  
(SAP 15)**



The setup gives an idea regarding Flow Sensor & Flow Transmitter Principle. It outlines the procedure for calibration of flow transmitter.

**Technical Specification: -**

- ❖ Sump tank: - Material: Stainless Steel, 2 mm thick/P.P 5mm thick  
Capacity: 30 liters,  
Dimension: 1ft (L)×1ft (W)×1 ft (H).
- ❖ Piping: - 1'' GI, Class B, with 1'' ball valves: 10 nos.
- ❖ Centrifugal Pump: - ½'' H.P., 230 V AC supply.
- ❖ Rotameter: - Range:0-2000 LPH, Glass tube type/acrylic body ,Bob Material: SS 304  
Connection: 1'', Mounting: Inlet Bottom Outlet Top.
- ❖ Orifice: 1'' Line size, concentric type, MOC: Polypropylene (pp) \ SS.
- ❖ Ventury: 1'' Line size.
- ❖ Manometer: - U-Tube manometer, H: 400 mm, Panel mounting type.
- ❖ Flowmeter: - Size: 1'', Type: Wheel flowmeter, Range: 0-2000 LPH,  
Output: 4-20 mA. /DPT.
- ❖ Flow Indicator: - 3 ½ digit display, 230 V AC operated,  
Cut out: 92 mm× 92 mm ×144 mm,  
Range: 0-2000 LPH, Input: 4-20 mA.

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- ❖ Electrical Control Panel: - MS Powder coated panel with switches, indicator, Test, Points, controller on front facia, UK 2.5 Terminal Connectors mounted on DIN rail Channel. Use of 1sq mm multistrand wire with Proper insulated Lugs, Ferruling & neat wire Dressing & clamping Wires & power cables are Seated through 1''×1'' PVC cable tray. Dimension: 1ft (L) ×1ft (W) ×1ft (H).

**Features:**

- ❖ Compact Ergonomic Design.
- ❖ User Friendly, Self Explanatory Systems.
- ❖ Robust Construction.
- ❖ Enhanced Electrical Safety Considerations.
- ❖ Training Manuals mimic Charts for Operation Ease.
- ❖ Inbuilt Safety Measures to avoid improper usage.

**System specifications:**

- ❖ Flow meter with 4-20 mA or pulse output & flow indication on LED display.
- ❖ Flow control valve (ball valve).
- ❖ Electrical control panel.
- ❖ Sump tank and pump for water circulation.
- ❖ Output of flow transmitter (4-20mA) displayed on 3-½-digit display.
- ❖ Rotameter for calibration of flow transmitter.
- ❖ Electrical control panel.
- ❖ Manometer for DP Measurement across Orifice Plate, Venturi meter.

**Range Of Experiments:**

- ❖ Study of Flow Transmitter, Flow Sensors such as Orifice, Rotameter, Venturi with the help of Manometer.
- ❖ Calibration of Flow Transmitter.

**System Dimension:** 4Ft. (L) X 2 Ft. (W) X 4 Ft. (H)

**Note:**

All descriptive matter and illustrations are intended to give only a general idea of the equipment. Detailed specifications may be altered at the company's discretion without any notice

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