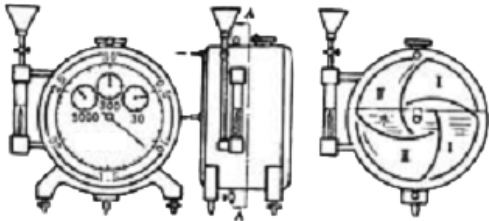


## Wet Gas Meter



### Description

Wet gas meter is a volumetric, positive-displacement flow meter (drum type) that yields high precision and accuracy for measuring relatively smaller flow of gas and therefore widely used as calibrator for other types of flow meters and as highly accurate flow meters for measuring calories of fuels and precise measuring in the laboratories.



The cylindrical drum that has rotating axle is partitioned into several chambers that are sealed by liquid such as water. The drum rotates and has 'L'-shape inlet tube inside. The housing is filled with liquid (water or oil) by more than half - the center of the drum is the same as that of the housing - and has an inlet tube that sticks out above the water level. If the gas with a higher pressure than that of the outlet enters through the inlet tube, it is guided into chamber I. The pressure of chamber II at this time is the same as that of the outlet, which is exposed above the water level. And then due to the difference of the gas pressure, the drum rotates to the direction of the dotted line (counter-clockwise). The gas is fed into and discharged from chamber I, II, III and IV by turns. If the volume of each chamber is V, then 1 rotation of the drum discharges 4V of gas. Therefore, if the rotation of the drum is counted and accumulated, the volume of the gas can be calculated. Because the gas is replaced by liquid and then refilled as the drum rotates, no gas is leaked, thereby

ensuring an accurate measurement of the gas volume.

To ensure the accuracy, the drum capacity is designed and manufactured accurately and the level of water is precisely calculated through a series of tests.

### Applications

- Laboratories and Research Institutions-Accurate measurement of small volumes and low flow rates where required.
- Calibrating small orifices
- Determining fuel air ratios for gas appliances
- Practical laboratory tool in refinery pilot plant development and research
- Measuring of manufactured, natural and technical gas
- Educational Institutions for laboratory experiments
- Determining gas volumes in, or resulting from chemical reactions
- Testing gas consumption in domestic science cooking experiments
- Calibrating meter for atmospheric emission sample meters
- Gas Appliance Testing
- Calibrating reference for diaphragm-type gas meters

### Model Code

| Description |                                       | Code |
|-------------|---------------------------------------|------|
| Version     | Version 1                             | V1   |
|             | Version 2                             | V2   |
| Drum Size   | 2 L/R                                 | 2L   |
|             | 5 L/R                                 | 5L   |
|             | 20 L/R                                | 20L  |
| Material    | Non-Corrosion Resistant (Copper)      | C    |
|             | Corrosion Resistant (Stainless Steel) | S    |
| Option      | Pulse Output                          | P    |

### Specifications

| Model              | V1-2L                                    | V1-5L                                     | V2-5L                   | V2-20L                 |
|--------------------|--|---|-------------------------|------------------------|
| Drum Size          | 2 L/R                                    | 5 L/R                                     | 5 L/R                   | 20 L/R                 |
| Flow Rate          | 0.2 m <sup>3</sup> /h                    | 0.5 m <sup>3</sup> /h                     | 0.5 m <sup>3</sup> /h   | 2 m <sup>3</sup> /h    |
| Max. Flow Rate     | 0.3 m <sup>3</sup> /h                    | 0.75 m <sup>3</sup> /h                    | 0.75 m <sup>3</sup> /h  | 3 m <sup>3</sup> /h    |
| Min. Flow Rate     | 0.1 x 10 <sup>-4</sup> m <sup>3</sup> /h | 0.25 x 10 <sup>-4</sup> m <sup>3</sup> /h | 0.005 m <sup>3</sup> /h | 0.02 m <sup>3</sup> /h |
| Full Reading       | 100 m <sup>3</sup>                       |   |                         |                        |
| Operating Pressure | 500 ~ 3000 Pa                            |   |                         |                        |
| Operating Temp.    | 5 ~ 35°C                                 |   |                         |                        |
| Accuracy           | 1%                                       |   |                         |                        |

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