

proportional to the square root of the differential pressure. The integrator continuously totalizes flow on a cyclometer register. For maximum chart reading the speed of the rotating disc on the integrator should be 25 r.p.m. The reading instrument can be located at a distance from the meter body and the line resistance can be compensated for by means of circuit resistance adjusters located on the panel at the back of the reading instrument. The maximum allowable circuit resistance is 40 ohms. The reading instrument returns to zero position when the rate of flow is less than 10% of the maximum or in this case the differential pressure is below 1.19 inches of water.

A list of factors accompanies the flow meter to enable the user to determine the instantaneous rate of flow in cubic feet per hour or the total volume of gas passed in cubic feet at standard conditions.

The graph traced on the chart, for differential pressures from 0 to 118.51, will not be smooth but will rise in steps with approximately 1% jumps at definite intervals. This is due to the distance from the bottom of one contact rod to the bottom of the adjacent one. This distance is such as to give less than 1% error for any given chart reading.

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