

- Low cost permits monitoring of loads
 throughout an industrial plant
- Alarm functions indicate when leakage has developed or usage has become excessive
- Totalizing function allocates usage and cost
- Complete flowmeter in one package

The AAW 25 represents a price-performance breakthrough in compressed-air metering. It fills a need for low-cost measurement of air usage by individual pieces of industrial equipment. It indicates leakage and excessive usage locally with blinking lights, thereby eliminating the need for central monitoring and enabling equipment operators and maintenance mechanics to observe and respond to developing problems.

The AAW 25 is based on AAW's proven technology, but it has been streamlined to reduce cost, reduce material usage and facilitate installation. The meter measures flow by maintaining one of its two probes warmer than the other; it calculates flow from the amount of heat required. Current flow, as well as minimum, average and totalized flows can be seen on a four-digit display.

AVAILABLE SIZES		
Pipe Size	Calibrated Range (scfm)	Model No.
½ in. IPS	1 - 80	AAW 25-05S
¾ in. IPS	1 - 120	AAW 25-07S
1 in. IPS	1 - 160	AAW 25-10S
¾ in. Cu	1 - 120	AĀ₩ 25-07C
1 in. Cu	1 - 160	AAW 25-10C



SPECIFICATIONS

Accuracy:

5 percent of reading plus one percent of full scale at an air temperatures from 40 to 120 degrees Fahrenheit and a pressure of 100 psig.

Fluids:

Compressed air and nitrogen

Operating pressure:

200 psig. maximum

Input power:

250 mA at 24 Vdc

Materials exposed to measured fluid:

Aluminum, stainless steel, gold, thermal epoxy and Buna-N (seal)

Display:

Four-digit LED display

Response time:

One second to 63 percent of final value

APPLICATION

The meter is designed for use with compressed air and nitrogen. The air must be free of oil, dirt that could foul the probes, and suspended water droplets. In a compressed-air application, the meter should be installed downstream of a dryer.

The meter is not to be used in safety or life-support applications. It should not be used as a sole means of determining required capacity of air compressors and related equipment. The meter must not be used in wet or hazardous locations.

INSTALLATION

The AAW 25 is designed for use in vertical air lines with air flowing downward. In other orientations there may be some loss of accuracy. For best accuracy, there should be straight pipe upstream of the meter with a length at least five times the diameter of the pipe. The meter should be positioned for good visibility and it should be readily accessible. With air shut down and pressure released, drill the two holes using the drill guide (purchased separately). Remove any burrs or roughness from the pipe with a file. Insert the probes into the pipe noting the direction of the flow arrow, and secure it with the two band clamps provided, tightening them to a torque of approximately 20 inch pounds.

WIRING

The meter must be powered by a 24 Volt +/- 10 percent dc supply with a capacity of at least 250 mA. Connect the supply to the dc+ and dc- terminals. If the supply cable is shielded, connect the shield to the gnd terminal.

LIMITATIONS

- The air must be clean and free of water and oil droplets
- Flow that occurs in short bursts will not be accurately averaged or totaled.
- No outputs are provided for remote monitoring.
- The meter is not for use in wet or hazardous environments.
- The meter does not distinguish between forward and reverse flow. If a piece of equipment includes a storage tank or extensive piping and the system pressure varies, the meter may sense flow when there is no air use.

MONITORING AND ALARM FUNCTIONS

In addition to its rate display, the meter can display minimum, average and total usage. A small button on the underside of the meter is used to index through the display modes, to select a default mode for display, and to program the display functions and the alarms. The displayed minimum value is the minimum of 360 samples taken over a period specified by the user. The displayed average is the average of 360 values recorded over a second specified period. The total is a non-resettable cumulative value expressed in thousands of cubic feet or thousands of cubic meters, depending on the units of measure of the meter.

The user specifies alarm thresholds for the minimum and average values, and a corresponding LED blinks when either of these thresholds is exceeded.

The meter also has a built-in adjustable digital filter to smooth variations in the indicated flow caused by turbulence or rapidly-varying flow. If the filter factor is set to zero, there is no filtering.

Please refer to the installation and operating instructions for information on programming the alarm and display functions.

LIMITED WARRANTY

AAW warrants solely to the buyer that Model 25 Flowmeter shall be free from defects in materials and workmanship, when given normal, proper and intended usage, for three years from the date of pur-chase. During the warranty period, AAW will repair or replace (at its option) any defective product at no cost to the buyer. The foregoing warranty is in lieu of any other warranty, express or implied, written or oral (in-cluding any warranty of merchantability or fitness for a particular purpose). AAW's liability arising out of the manufacture, sale or supplying of the flowmeter, whether based on warranty, contract, tort or other-wise, shall not exceed the actual purchase price paid by the buyer, and in no event shall AAW be liable to anyone for special, incidental or consequential damages.

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