

CAM 5200

FLOWMETER FOR COMPRESSED-AIR SYSTEMS

- Easy to install
- No moving parts
- Digital display
- Milliamp and pulse outputs
- 100:1 turndown capability
- No calibration or setup required
- Complete flowmeter in one package
- Optional RS-485 output for networking



DESCRIPTION

The CAM 5200 clamps onto a pipe, with two flowsensing probes projecting into the pipe through 3/16-in. drilled holes. It seals directly to the pipe; no cutting or welding is required for installation. Because each flowmeter is made and calibrated for a specific size of pipe, the digital display indicates flow directly, with no setup or adjustment.

The meter measures flow by maintaining one probe warmer than the other. It calculates the mass velocity from the amount of heat required, and then calculates the flow on the basis of pipe area. The flow rate, in scfm, is shown on a large, four-digit display; a 4-20 mA output and a pulse output permit remote display, totalizing and data collection.

AVAILABLE SIZES			
Size (in.)	Range ^a (scfm)	Model No. for Sch 40 Steel	Model No. for Type L Copper
1/2	0.4 - 30	5200-05S	—
3/4	0.6 - 40	5200-07S	5200-07C
1	1 - 80	5200-10S	5200-10C
1-1/4	1 - 150	5200-12S	5200-12C
1-1/2	2 - 200	5200-15S	5200-15C

(a) Accuracy will be reduced when flow is outside of specified range. Milliamp scale ranges differ.

SPECIFICATIONS

Accuracy:

5 percent of reading plus one percent of full scale at air temperatures between 40 and 120 degrees F

Fluids:

Compressed air and nitrogen

Operating pressure:

15 to 170 psig for best accuracy

200 psig maximum on Sch. 40 steel and Type L copper.

Input power:

250 mA at 18 to 24 Vdc

Output resistance:

400 Ohms max.

Wetted materials:

Stainless steel, gold, thermal epoxy and Viton® (seal)

Ring material:

Aluminum

Display:

Four-digit LED display

Response time:

One second to 63 percent of final value