

A Higher Level of Performance



Data Sheet

CalFlo™ Air Flow Meter (CFAF)

Thermal Mass Air Flow Meter



For more information, please visit >
www.hawkmeasurement.com

Overview

CalFlo™ Air Flow Meter (CFAF)
Thermal Mass Air Flow Meter



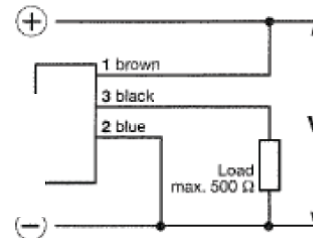
Principle of Operation

The industrial purpose flow meter is a great choice for monitoring a diverse range of air or gaseous applications. The CalFlo™ CFAF is encapsulated in epoxy resin and operates with NO moving parts. The CFAF provides a wide measurement range up to 164 fps and is available in five different units to ensure the best signal resolution. Typical applications include air conditioning, dust collection systems, ventilation monitoring, and energy conservation systems.

Technology

The calorimetric flow meter measures continuous flow by detecting heat change in the media as it flows by the sensor. For reference, calorimetric flow meters are often used in air conditioning, dust collection, energy conservation systems, potable/non-potable water, sulfuric acid, and ventilation monitoring.

Connection Diagram



Typical Applications



Agriculture



Environmental Water & Wastewater



Oil & Gas



Chemical & Petrochemical



Life Sciences



OEM



Minerals & Mining



Power & Energy

Features and Benefits

- Compact air flow meter with rugged Stainless Steel construction or plastic Ultradur
- High accuracy with NO moving parts
- Provides 4-20 mA measurement
- Continually adjustable measurement range
- Sensor for all measurement and control applications
- Easy to install

Specifications

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Specifications

CFAF FLOW METER	
SERVICE	Compatible Gases
MEASURING RANGE	CFAF-_-01: 0.25 to 32 fps (10 mps) CFAF-_-02: 0.25 to 65 fps (20 mps) CFAF-_-03: 0.25 to 98 fps (30 mps) CFAF-_-04: 0.25 to 131 fps (40 mps) CFAF-_-05: 0.25 to 164 fps (50 mps)
ADJUSTMENT CHARACTERISTIC	Logarithmic to Flow Speed
PRESSURE	CFAF-U: 15 psi (1 bar) CFAF-S: 150 psi (10 bar)
ACCURACY	<3%
REPEATABILITY	<1%
TEMPERATURE DRIFT	<0.3% / K
SUPPLY VOLTAGE	24 VDC ± 30%
CONSUMPTIONS	1.3W max.
OUTPUT	4-20mA
RESISTIVE LOAD	0-500 Ohm
MEASUREMENT RANGE ADJUSTMENT	The measurement range of the air flow meter is adjustable with a small screwdriver (included) turning a potentiometer. A green LED signalizes operation within the adjustable measurement range. If flow exceeds the measurement range LED turns off.
PROCESS TEMPERATURE	F: -4° to 160° C: -20° to 70°
AMBIENT TEMPERATURE	F: -4° to 160° C: -20° to 70°
ENCLOSURE RATING	NEMA 4 (IP64)
HOUSING MATERIAL	Ultradur (PBTP) or stainless steel
SENSOR MATERIAL	Ceramic with over glaze
WEIGHT	CFAF-U: 0.3 lbs (130 g) CFAF-S: 0.4 lbs (200 g) without nut
CABLE	
CABLE JACKET MATERIAL	Oilflex
CABLE LENGTH	6.5' (2m)
<i>Specifications are subject to change without notice.</i>	

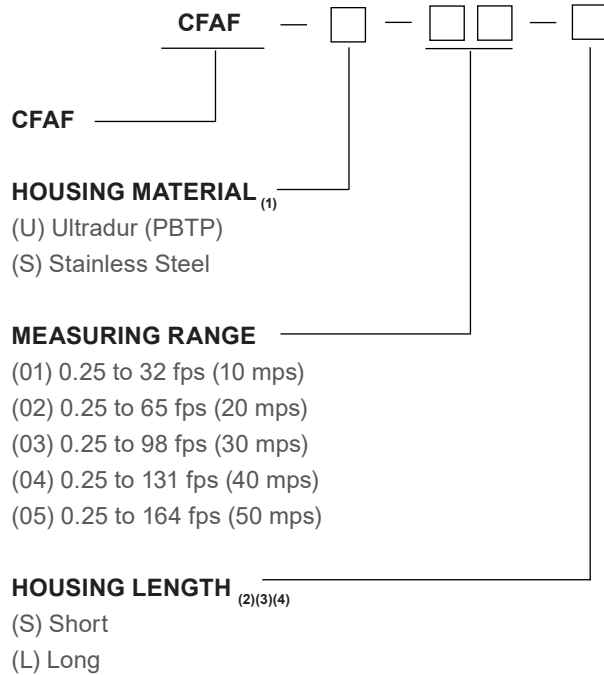
Ordering Information

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Ordering Information

HAWK Model Number Builder



Ordering Notes:

- (1) Select the best configuration based on your requirements
- (2) Select the short housing for use with pipe sizes 1/2" to 1-1/2" in diameter and the long housing for 2" and up.
- (3) For additional mounting options, please contact factory
- (4) Comes complete with 6.5' (2m) pre-wired cable and manual

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Additional product warranty and application guarantees upon request.

Technical data subject to change without notice.

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