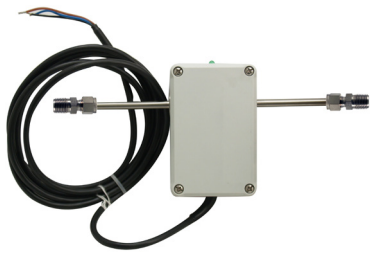
A Higher Level of Performance

Data Sheet

CalFlo™ Air Flow Meter (CFAM)

Thermal Mass Air Flow Meter

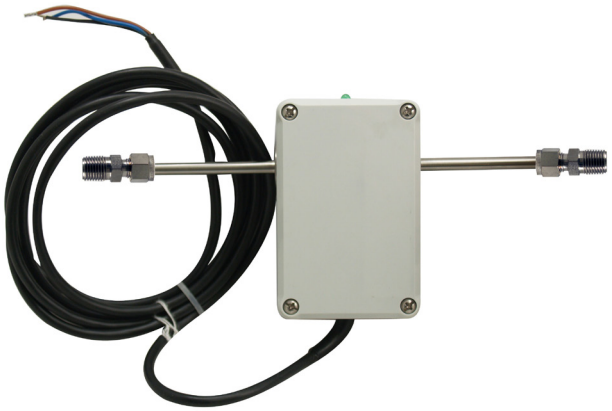


For more information, please visit >
www.hawkmeasurement.com

Overview

CalFlo™ Air Flow Meter (CFAM)

Thermal Mass Air Flow Meter



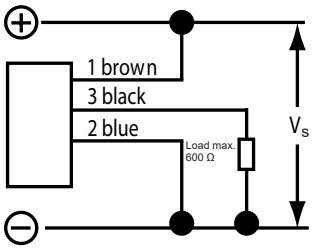
Principle of Operation

Ideal for small pipe and low flow applications, the CalFlo™ CFAM is an inline thermal mass air flow meter that will accurately measure and control a variety of gaseous media. Completely encapsulated in epoxy resin, CFAM features solid-state sensing, adjustable measuring range, LED output display and is well-suited for small pipes up to 3/4” in diameter. Typical applications include vent gas, wet stack gas, sample line flow, purge flow, nitrogen blanket flow and many others. Select the appropriate configurations based on your application or contact our Application Specialist for additional assistance.

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
- Chemical & Petrochemical
- Environmental Water & Wastewater
- Life Sciences
- Minerals & Mining
- Oil & Gas
- OEM
- Power & Energy

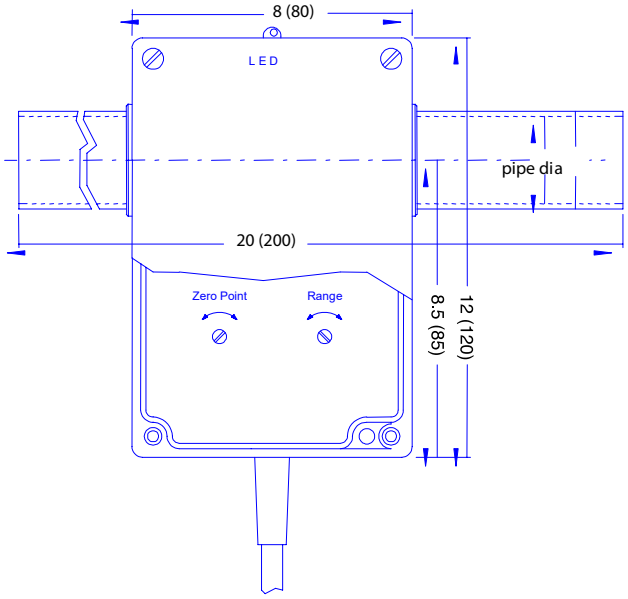
Features and Benefits

- Compact, rugged industrial design
- Ideal for small pipe and low flow applications
- High accuracy with NO moving parts
- Provides 4-20 mA measurement
- Features LED output display
- Temperature compensated
- Easy to install

Specifications

SENSOR	
SERVICE	Compatible Gases
MEASURING RANGE	CFAM-00: 0.25 to 16 fps (5 mps) CFAM-01: 0.25 to 32 fps (10 mps) CFAM-02: 0.25 to 65 fps (20 mps) CFAM-03: 0.25 to 98 fps (30 mps)
MEASURING RANGE ADJUSTMENT	Continually adjustable from 20% to 100% of the special measuring range, 2 potentiometers (zero point range)
ACCURACY	<3%
REPEATABILITY	<1%
TEMPERATURE DRIFT	<0.3% / K
PROCESS TEMPERATURE	F: -4° to 158° C: -20° to 70°
AMBIENT TEMPERATURE	F: -4° to 158° C: -20° to 70°
PRESSURE	140 psi (10 bar)
PROTECTIVE RATING	NEMA 4 (IP65)
APPROVAL	CE
MECHANICAL	
INLINE SENSOR PIPE MATERIAL	Stainless Steel
SENSOR MATERIAL	Ceramic, platinum with overglaze
ENCLOSURE MATERIAL	Makrolon®
CONNECTION SIZE	1/4”, 1/2”, 3/4”
CONNECTION TYPE	Male NPT (Std.); Special Connection (Optional)
ELECTRICAL	
SUPPLY VOLTAGE	24 VDC ±15%
CONSUMPTION	Approx. 800 mW to 1.3 W (at max. flow)
OUTPUT CURRENT	4-20 mA
LOOP RESISTANCE	0-600 ohm
CABLE	
CABLE JACKET MATERIAL	Oilflex
CABLE LENGTH	6.5 ft, 3-conductor 18 AWG
Specifications are subject to change without notice.	

Dimensions



Ordering Information

HAWK Model Number Builder

CFAM — □ — □□ — □

CFAF

MEASURING RANGE (1)

(00) 0.25 to 16 fps (5 mps)

(01) 0.25 to 32 fps (10 mps)

(02) 0.25 to 65 fps (20 mps)

(03) 0.25 to 98 fps (30 mps)

CONNECTION SIZE

(Pipe Diameter)

(02) 1/4”

(04) 1/2”

(06) 3/4”

CONNECTION TYPE (2)(3)

(C) Compression Fitting (Std)

(T) Male NPT Threaded

(X) Special Connection

Ordering Notes:

(1) Select the best configuration based on your requirements

(2) If you require a Special Connection (X), please consult factory with your requirements

(3) Comes complete with 6.5’ (2m) pre-wired cable and manual

Hawk Measurement Systems (Head Office)

15 - 17 Maurice Court, Nunawading VIC 3131, AUSTRALIA

Phone: +61 3 9873 4750

Fax: +61 3 9873 4538

info@hawk.com.au

Hawk Measurement

5010 Gateway Drive, Medina, OH 44256, USA

Phone: +1 888 HAWKLEVEL (1-888-429-5538) / +1 978 304 3000 / +1 877-356-5463

Fax: +1 978 304 1462 / +1 330-331-7172

info@hawkmeasure.com

For more information and global representatives: **www.hawkmeasurement.com**

DOC-CFAM-DAT
Rev 1.00 0520