

# Model 5700

## Electronic Flowmeter

The Brooks® Model 5700 is a gas flow meter specially designed to satisfy the needs of purge gas, process analysis and analytical flow measurement applications. The Model 5700 utilizes a proven thermal mass flow sensor which provides excellent repeatability, wide turndown and an electrical output signal. It has a rugged all stainless steel construction and no moving parts providing superior corrosion resistance and long- term reliability. The Model 5700 is an economical meter with an electrical output signal making it ideal for replacing turbine meters, variable area meters and other volumetric devices.



### Features

Mass Flow Measurement	No temperature or pressure correction required
Wide Range of Flow Rates	Satisfies most applications
Excellent Repeatability	Delivers consistent process/test results
No Moving Parts	Ensures long-term reliability
Stainless Steel Wetted Materials	Compatible with most process/test gases
Single Sided Power Input	Simplifies and reduces cost of installation
0-5 Volt Output Signal	Allows flow indication, trending and totalizing
European Community CE Certified	Ensures electrical integrity for every application

### Benefits

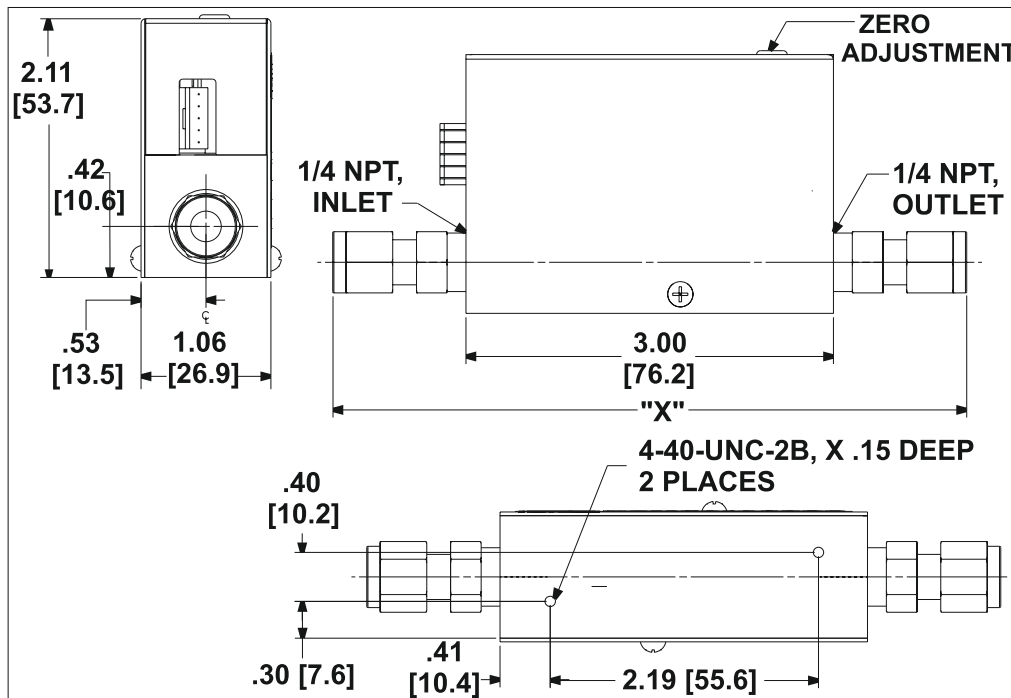
# Product Specifications

## Performance

Standard Flow Ranges*	0-10, 0-20, 0-50, 0-100, 0-200, 0-500 ml/min 0-1, 0-2, 0-5, 0-10, 0-20, 0-50 liters/min
Rangeability	20:1
Repeatability	0.5% F.S.
Accuracy	5% F.S. including linearity
Temperature Sensitivity	Zero: less than $\pm 0.075\%$ F.S. per $^{\circ}\text{C}$ Span: less than $\pm 0.075\%$ F.S. per $^{\circ}\text{C}$
Pressure Sensitivity	Less than 0.05% per psi (0.0073% per KPa)
Mounting Attitude Sensitivity	Less than 0.5% F.S. shift after rezeroing
Working Pressure	Up to 150 psig (1034 KPa)
Temperature Limits	Operating: 5 to $65^{\circ}\text{C}$ Non-operating: $-25$ to $100^{\circ}\text{C}$
Materials of Construction	304 and 316 Stainless Steel
Connections	Mechanical: 1/4" FNPT Electrical: 5-Pin post header horizontal mount AMP 171826-5. The mating connector is AMP 172053-5
Power	11.5 to 15.5 Vdc, 50 mA
Output Signal	0-5 Vdc into 1000 ohms or greater
Dimensions	See Dimensions figure
Weight	1lb / 0.5Kg

\*Nitrogen, 760 torr Reference Pressure, Reference Temperature defined by User

## Product Dimensions



Fitting Size/Type	"X" Dim.
1/8 Compression	5.12 $\pm$ 0.125 [130.0]
1/4 Compression	5.20 $\pm$ 0.125 [132.1]
3/8 Compression	5.30 $\pm$ 0.125 [134.6]

Inches [Millimeters]

Code Description	Code Option	Option Description
I. Base Model Number	5700A	Pressure Controller
II. Flow Range (*)	A	0-10 ml/min
	B	0-20 ml/min
	C	0-50 ml/min
	D	0-100 ml/min
	E	0-200 ml/min
	F	0-500 ml/min
	G	0-1 liters/min
	H	0-2 liters/min
	J	0-5 liters/min
	K	0-10 liters/min
	L	0-20 liters/min
	M	0-50 liters/min
III. Reference Temperature	1	70°F (Standard)
	2	0°C (Normal)
IV. Process Connection	A	Integral 1/4" (f)NPT
	B	1/8" Compression
	C	1/4" Compression
	D	3/8" Compression
V. Material of Construction	1	Stainless Steel
VI. Options	A	None
	B	10ft (3 meter) cable assembly
	C	Clean for oxygen service
	D	Options B and C above
VII. User/OEM Code	A	Standard

\*Nitrogen, 760 torr Reference Pressure, Reference Temperature defined by User

Sample Model Code

I	II	III	IV	V	VI	VII
5700A	H	1	A	1	A	A

Brooks is committed to assuring all of our customers receive the optimal solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit [www.BrooksInstrument.com](http://www.BrooksInstrument.com) to locate the service location nearest to you.

## START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required. For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

## SEMINARS AND TRAINING

Brooks Instrument can provide customer seminars and dedicated training to engineers, end users, and maintenance persons. Please contact your nearest sales representative for more details. Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.



## TRADEMARKS

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Data-Sheet-5700-EN/2024-11

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