

F&J MINI-CALIBRATOR

NOTABLE FEATURES:

- ❖ Various Flow Ranges Available
- ❖ Lightweight; 8 oz. (227 gms)
- ❖ Small Footprint
- ❖ Adjustable Height
- ❖ Flow rate displayed are corrected to an operator settable Reference Temperature and Pressure

— Options Available:

<u>Temperature</u>	<u>Pressure Options Available</u>
20°C	1 Atm
70°F	1 Bar
25°C	

- ❖ Flow rates displayed can also be corrected to the local ambient conditions of T and P by the operator
- ❖ Displays Airflow Temperature
- ❖ Displays Barometric Pressure
- ❖ Bright LED with large characters
- ❖ English or Metric Engineering Units (set at factory) Selection:

<u>Flow</u>	<u>Temperature</u>	<u>Barometric Pressure</u>
SCFM	°F	Inches Hg
scm	°C	mmHg
SLPM		kPa
SCMH		Bar



The F&J Mini-Calibrator is a small, lightweight microprocessor controlled instrument with sophisticated electronics that measures and displays flow rate corrected to a reference T and P, barometric pressure and air flow temperature.

The Mini-Calibrator, which is an exclusive F&J design, is a direct reading instrument utilizing a bright LED with large characters that are easily viewed by an operator. A NIST traceable calibration certificate is issued with each calibrator. The operator may select from a reference T and P flow standard or ambient T and P conditions.

The Mini-Calibrator can be utilized as a handheld unit for field calibrations or temporarily mounted in a variety of methods without requiring a level position. The optional hose barb fittings permit easy connection to the air samplers utilizing flexible tubing.

F&J SPECIALTY PRODUCTS, INC.

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F&J's Mini Calibrator

MODEL SELECTION

Flow Range

110V	230V	SCFM	SLPM	sccm
MC-300CC	MC-300ECC		0.075 – 0.3	75 – 300 cc/m
MC-500CC	MC-500ECC		0.2 – 0.5	200 – 500 cc/m
MC-1L	MC-1LE		0.2 – 1	
MC-3L	MC-3LE		0.5 - 3	
MC-5L	MC-5LE	0.02 – 0.18	1 – 5	
MC-15L	MC-15LE	0.07 – 0.53	3 – 15	
MC-25L	MC-25LE	0.14 – 0.88	4 - 25	
MC-30L	MC-30LE	0.11 – 1.06	6 – 30	
MC-50L	MC-50LE	0.18 – 1.8	10 - 50	
MC-60L	MC-60LE	0.2 – 2	12 – 60	
MC-75L	MC-75LE	0.26 – 2.6	15 - 75	
MC-115L	MC-115LE	0.5 – 4	15 – 115	
MC-175L	MC-175LE	0.63 – 6.2	30 - 175	
MC-250L	MC-250LE	1 – 9	50 – 250	

MEASUREMENT ACCURACY

Air Flow	± 2.0% of full scale
Temperature (Typical)	± 2°F (1.1°C)
Barometric Pressure	± 2% over measurement range

CALIBRATION

Factory calibration is recommended once per year.

OPTIONS

RS-232 interface, including cable.
All measured and calculated parameters are accessible through RS-232 port to a computer

GENERAL SPECIFICATIONS

Power Requirements	110 or 230VAC; 47-63 Hz; 0.1 amp maximum
Operating Temperature	40-104 Degree F (4-40 Degree C)
Storage Temperature	22-158 Degree F (-5-70 Degree C)
Dimension (L×W×H)	3.25" × 2.50" × 2.00" (82,6 mm × 140 mm × 50,8 mm)
Weight	8 ounces (227 g)

Parameter	Engineering Unit	Resolution
CFM	Cubic feet per minute	0.01 CFM
LPM	Liter per minute	0.1 LPM
M ³ /hr	Cubic meter per hour	0.01 M ³ /hr.
F	Degree Fahrenheit	0.1 Degree F
C	Degree Celsius	0.1 Degree C
In-Hg	Inches of Mercury	0.01 In-Hg
mm-Hg	Millimeters of Mercury	1 mm-Hg

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