

Swift 25.0

Flow Calibrator

The Swift 25.0 is a multi-function flow calibrator specifically designed to audit and calibrate flow, pressure, and temperature of ambient air sampling and monitoring instruments.

For use with all standard FRM and FEM ambient air samplers and monitors, including these Met One products:

**BAM 1020, BAM 1022, E-SEQ-FRM,
E-FRM-DC, E-BAM Plus, E-BAM,
SASS/SuperSASS**

For a complete list, contact sales@metone.com

Description

The **Swift 25.0** has an easy-to-read display indicating flow rate, average flow, ambient or flow temperature, relative humidity (RH), and ambient pressure. Temperature, pressure, and RH are utilized for standard or actual flow calculation. Flow accuracy is traceable to NIST standards.

The Swift 25.0 is a truly portable device, weighing only 19.8 ounces with compact dimensions of 4" x 6.1" x 1.35".

Other Features Include

- A portable carrying case and supplied accessories.
- Detachable, external ambient temperature probe.
- One-button operation.
- Sunlight-readable backlit display.
- Data logging for all values with a quick press of the power button.
- Optional Bluetooth connection to portable device for remote display, downloading data, and setup.



Supplied Accessories

- Operator's Manual.
- Calibration Certificate (NIST).
- Ambient Temperature Probe.
- Bluetooth Antenna.
- Flow Adapter for ¼" ID Tubing (SASS Application).
- 4' (1.22 m) of ¼" (6.35 mm) ID tubing.
- USB Cable.
- Carrying Case.
- Software and Driver (available on website).



Specifications

Parameters

Flow Range:	2 to 25 LPM
Accuracy:	± 1% of reading to -10°C
Display Resolution (Flow):	0.01 LPM
Display Units:	LPM or SLPM
Flow Averaging:	10-second rolling average on Average Display
Barometric Pressure Range:	400 - 900 mmHg
Barometric Pressure Accuracy:	± 1.125 mmHg @25°C, ± 1.875 mmHg error band between 20°C to 85°C
Display Resolution (Pressure):	0.1 mmHg
Pressure Units:	mbar, mmHg, kPa, inHg, or Pa
Pressure Drop:	7 mmHg @ 25 LPM
Temperature Accuracy:	± 0.2°C
Display Resolution (Temp.):	0.01°C
Temperature Units:	°C or °F
Relative Humidity Range:	0 to 100% RH non-condensing
Relative Humidity Accuracy:	± 3.5% RH
Data Storage Capacity:	100 records, snapshot method, utilizing power button

Electrical

DC Power:	Internal Lithium-ion battery
Charging:	USB-C
Serial:	USB-C
Battery Life:	35 Hours
Driver:	CP210X
Software:	Swift Utility Software

Interface

Display:	Black on White, Backlit, 320 x 154 Resolution
Display Parameters:	Flow Rate, Average Flow Rate, Temperature of Flow, Ambient w/ probe, Relative Humidity, Ambient Pressure, Battery Level/Charge

Physical

Weight:	19.8 oz. (561 g)
Size:	4 in. wide x 6.1 in. height x 1.35 in. depth (10.6 cm x 15.5 cm x 3.4 cm)
Outlet Fitting Size:	1.25" ID (31.75 mm) slip-on w/ O-ring seal

Environmental

Operating Temperature Range:	-20°C to 50°C
Operating Humidity:	0 to 100% non-condensing
Water Resistance:	Enclosure is water-resistant. Connections are IP67-rated.



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