

FlowMeter F2

Precise. Compact. Battery powered.

analyser
the art of measuring

The FlowMeter F2 measures gas flow, volume, absolute pressure, differential pressure, temperature and humidity. Easy to use, battery powered, compact and versatile. It will ease your job in engineering, manufacturing and field service.

Differential and
absolute pressure

Temperature
Humidity



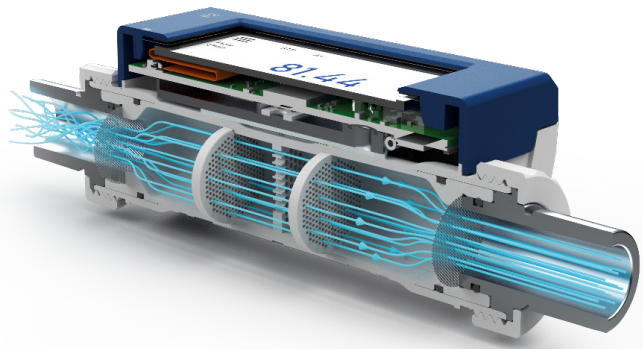
Flow

Features

- Flow measurement with 1.7 % accuracy
- Gas temperature and humidity
- Differential and absolute pressure
- Built-in battery
- Low resistance
- Easy to use
- Remote control interface

Precise flow measurement

Our new patented flow measuring system incorporates a multi-disc system flow channel. Multiple sensors guarantee a highly responsive and temperature and humidity compensated flow measurement.



USB drive

Remote control

On/Off

Power supply



App for iOS and Android

Analyse data with your mobile device. The FlowMeter App offers high resolution real-time charts, advanced data snapshot and more.



Easy to Use

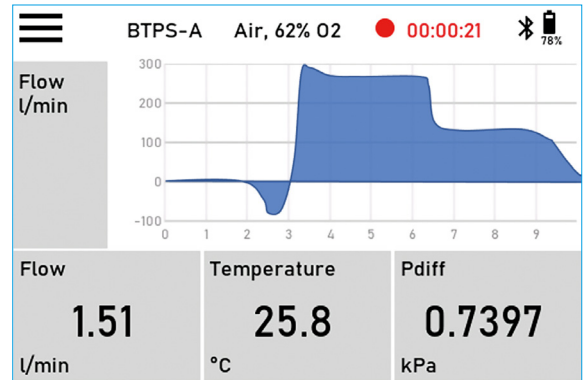
The FlowMeter offers a beautiful, high resolution single-touch user interface that is configurable. View real-time charts, numerical values and statistics. Change the unit of measure, gas standard and gas type quickly and easily.

Recording and data snapshot

Record data for up to 100 hours with a resolution of 1 ms and export it as a csv file. Data snapshot is stored as a bitmap (bmp) file.

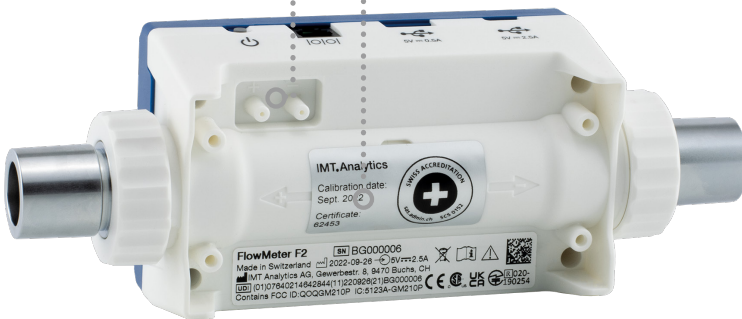
Battery powered

Use FlowMeter independently all day long. The internal rechargeable battery allows convenient, untethered measuring on the go.



Differential pressure

ISO 17025



FlowMeter F2 test set

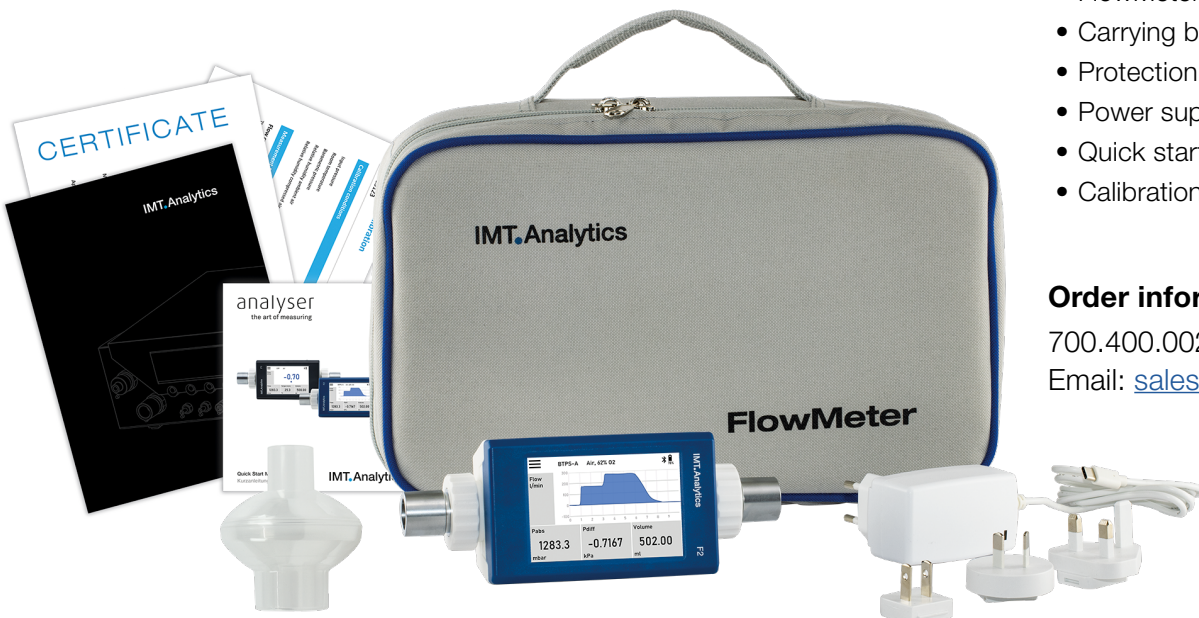
The FlowMeter set contains

- FlowMeter F2
- Carrying bag
- Protection Filter RT019
- Power supply
- Quick start guide
- Calibration certificate

Order information

700.400.002 FlowMeter F2 test set

Email: sales@imtanalytics.com



Technical specifications FlowMeter F2

Measurements		Range	Accuracy
Flow	Measuring direction	Bidirectional	
	Temperature compensation	Automatic	
	Pressure compensation	Automatic	
	Humidity compensation	Automatic	
	Flow	± 300 L/min	± 1.7 % or ± 0.05 L/min
Volume	in flow channel	0–500 000 L	± 4 % or ± 1 mL
Pressure	Differential Pressure (P_{diff})	± 250 mbar	± 0.5 % or ± 0.15 mbar
	Absolute pressure in flow channel (P_{abs})	0.5–2 bar	± 10 mbar
Temperature	in flow channel	-10–50 °C	± 1 °C
Humidity	in flow channel	0–100 % RH	± 3 % RH (20%–80 % RH)
			± 5 % RH (< 20%, > 80 % RH)
Additional information		Range	Accuracy
Gas types		Air, Air/O ₂ , N ₂	
Gas standards		ATP, STP, BTPS-A, CTP (Channel temperature pressure)	
Units	Flow	L/min, ft ³ /min (cfm/min)	
	Volume	L, mL, ft ³ (cfm)	
	Pressure	mbar, cmH ₂ O, inH ₂ O, hPa, kPa, Pa, mmHg, PSI	
	Temperature	°C, °F, K	
Resistance	in flow channel	< 20 mbar @ 200 L/min	< 40 mbar @ 300 L/min
Response Time	Flow	4 ms to 63 % of full scale	
General information			
Power supply		5V, max 2.5 A, supplied through USB-C	
Power consumption		Typical 0.5 W, max. 1 W Battery charging: up to 12.5 W	
Battery operation		Typical 10 hours	
Weight		350 gram	
Dimensions (w × d × h)		20 × 8 × 6 cm	
Data storage		USB stick	
Display		High resolution touch-screen display 3.5" (480 × 320px)	
Interfaces		USB-A for USB stick, USB-C for power, RJ-10 for remote control	
Calibration		Annually	
Operating temperature		5–40 °C (50–104 °F)	
Operating humidity		10–90 % RH non-condensing	
Approvals		CE, UKCA, CSA (North America), FCC, IC, IEC 61010-1:2010/AMD1:2016, IEC 61326-1:2020	

IMT Analytics

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