

# FlowMeter F1

Precise. Compact. Lovable.

analyser  
the art of measuring

The FlowMeter F1 measures gas flows, volume, absolute pressure and temperature. It is easy to use, battery powered, compact, versatile and ideal for engineering, manufacturing and field service.

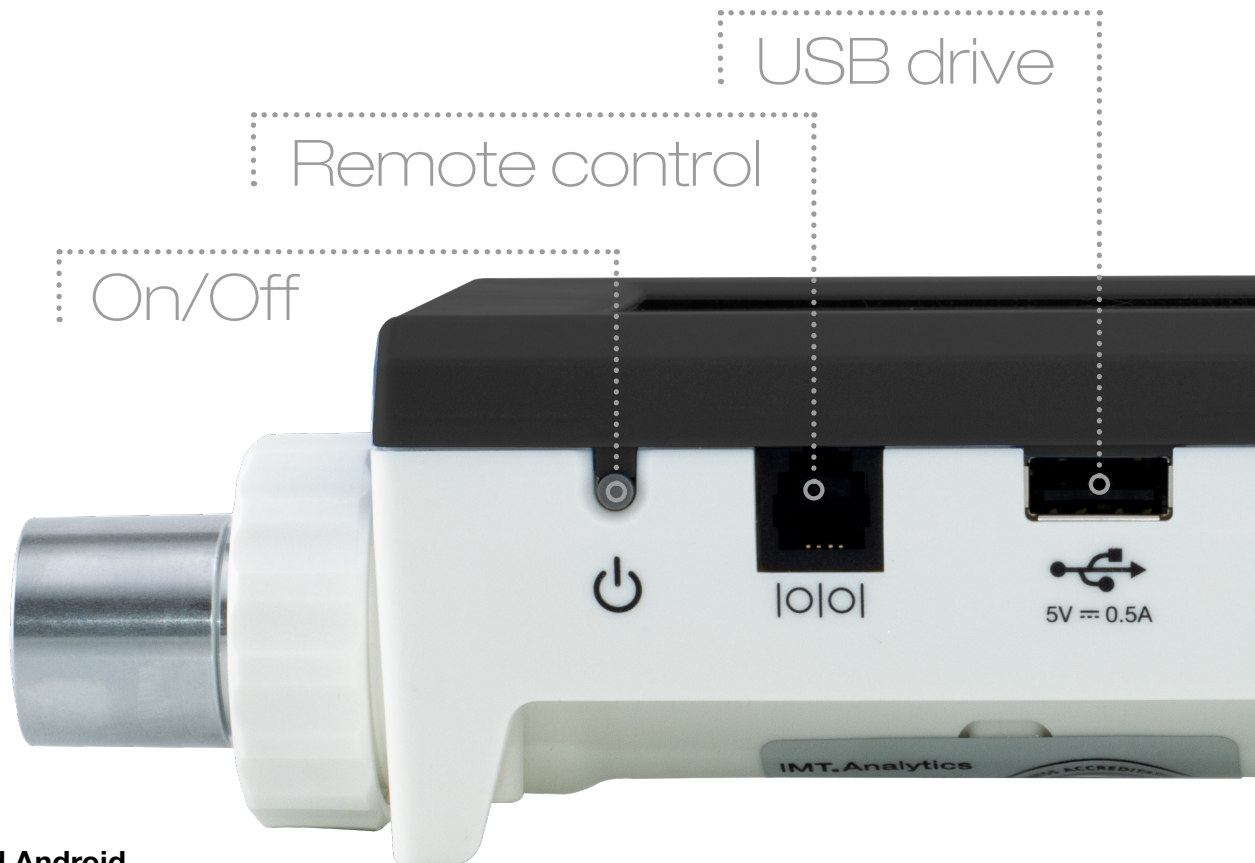
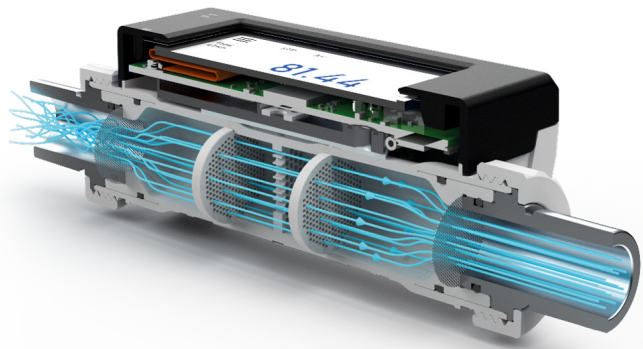


## Features

- Flow measurement with 1.9% accuracy
- Gas temperature
- Absolute pressure
- Built-in battery
- Low resistance
- Easy to use
- Remote control interface

### Precise flow measurement

The new patented flow measurement, with its multi-disc system, uses AI algorithms to ensure precise flow accuracy, a very low zero drift and low flow resistance.



### 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

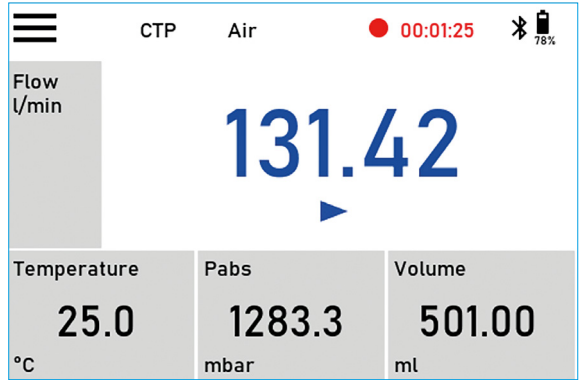
The FlowMeter offers a beautiful, high resolution single-touch user interface that is configurable. View real-time charts and numerical values. Change the unit of measure, gas standard and gas type quickly and easily.

### 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. Its internal rechargeable battery allows convenient, untethered measuring on the go.



Power supply



### FlowMeter F1 test set

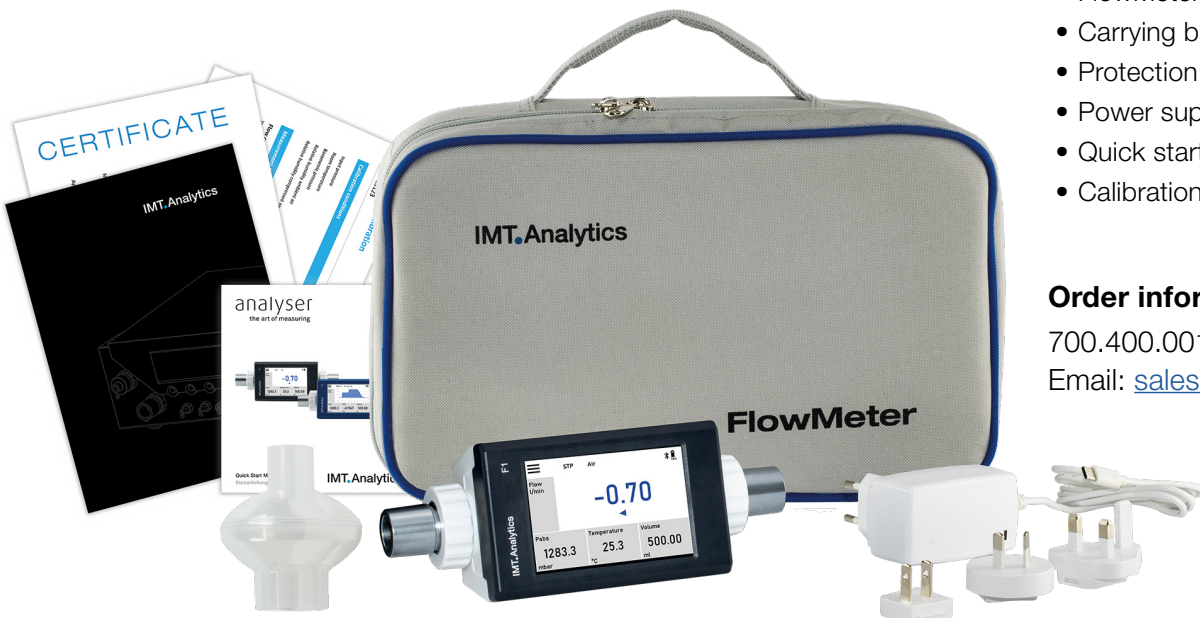
The FlowMeter set contains

- FlowMeter F1
- Carrying bag
- Protection Filter RT019
- Power supply
- Quick start guide
- Calibration certificate

### Order information

700.400.001 FlowMeter F1 test set

Email: [sales@imtanalytics.com](mailto:sales@imtanalytics.com)



## Technical specifications FlowMeter F1

Measurements		Range	Accuracy
Flow	Measuring direction	Bidirectional	
	Temperature compensation	Automatic	
	Pressure compensation	Automatic	
	Flow	± 300 L/min	± 1.9 % or ± 0.05 L/min
Volume	in flow channel	0–500 000 L	± 2.25 % or ± 1 mL
Pressure	Absolute pressure in flow channel ( $P_{abs}$ )	0.5–2 bar	± 10 mbar
Temperature	in flow channel	-10–50 °C	± 1 °C
Additional information		Range	Accuracy
Gas types		Air, Air/O <sub>2</sub> , N <sub>2</sub>	
Gas standards		ATP, STP, BTPS-A, CTP (Channel temperature pressure)	
Units	Flow	L/min, ft <sup>3</sup> /min (cfm/min)	
	Volume	L, mL, ft <sup>3</sup> (cfm)	
	Pressure	mbar, cmH <sub>2</sub> O, inH <sub>2</sub> 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		5 V, 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 × 320 px)	
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

IMT Analytics AG . Gewerbestrasse 8 . 9470 Buchs . Switzerland  
T +41 81 750 67 10 . [www.imtanalytics.com](http://www.imtanalytics.com)