IAS-FS-Lite Series

Portable Measurement Intelligent Analysis

Lite Compressed Air



Product Overview

IAS-FS-Lite is a portable flow measurement kit for compressed air systems. Optional 4G module enables remote monitoring. Optional Wi-SUN module can be paired with the F351x-P to enable on-site data collection, set-and-forget installation and setup, plug and play. The plug-in pitot flowmeter can be installed without shutdown and can be adapted to different pipe diameters (optional: plug-in thermal mass flow meter). Extremely high sensitivity, the lower limit of gas measurement can reach 5 Nm/s. Innovative online auto- calibration function and professional anti-condensation technology, ensures the accuracy and stability of the product

Optional 4G / Wi-SUN module

5Nm/s

Extreme lower limit of measurement (Pitot Tube)

Easy Installation Plug and play

Measuring Range

Inch	DN	ID (mm)	Min Flow (Nm^3/h)	Max Flow (Nm^3/h)
1	25	25	8.8	530
$1^{1/4}$	32	32	14.5	868
$1^{1/2}$	40	40	22.6	1357
2	50	50	35.3	2120
$2^{1/2}$	65	65	59.7	3583
3	80	80	90.5	5428
4	100	100	141.4	8482
5	125	125	220.9	13253
6	150	150	318.1	19085
8	200	200	565.5	33929
10	250	250	883.6	53014
12	300	300	1272.3	76340

* For more pipe sizes and flow ranges, please consult sales

*The above are the measuring range parameters of pitot tube flow meter. For thermal mass flow meter, please consult sales

Technical Data

Flow	
Measuring Range	5 … 300 Nm/s
Accuracy	±(1.5% RD + 0.3% FS) [1% RD Option]
Medium	Dry / wet air and non-corrosive gases
Reference Conditions	20 °C, 1 bar(a) – ISO 1217 (Configurable)

Operating Environment	
Battery Box Operating Temperature	-20 … +60 °C
Medium Temperature	-40 … +150 °C
Operating Pressure	0 … 1.7 MPa(a)

Pressure	
Measuring Range	0 … 1.7 MPa(a)
Accuracy	±0.5% FS

Display & Data Log	
Display	2.8″ IPS LCD with capacitive touch
Data Log	Max. 10,000,000 values

Temperature	
Measuring Range	-40 … +150 °C
Accuracy	±0.5 °C

Power	
Supply Voltage & Power	18 … 30 VDC 24W @ 24VDC

Output	
Analog Output (Standard)	4 … 20 mA (Isolated) / Pulse Output (Consumption)
Digital Output (Standard)	Modbus RTU (RS485)
Wireless Output (Choose one of three)	Bluetooth (Default) Wi-SUN (Option) IoT-4G (Option)
Connector	2 × 5pin M12,Male

Others	
Process Connection	G1/2″ (ISO 228-1)
EMC	Compliant with IEC 61326-1
Weight	4.3 kg
Dimension	558 × 261 × 135 mm (L×W×H)
Material	PP

* The above are the technical data of pitot tube flow meter. For thermal mass flow meter, please consult sales

Order Information

Model	Description
IAS-FS01-Lite01	Lite Compressed Air Audit Suit - Flow, pitot tube flow meter, pole length 250mm, flow rate 5 ... 300 Nm/s, built-in 4G-IoT module
IAS-FS02-Lite01	Lite Compressed Air Audit Suit - Flow, pitot tube flow meter, pole length 400mm, flow rate 5 ... 300 Nm/s, built-in 4G-IoT module
IAS-FS03-Lite01	Lite Compressed Air Audit Suit - Flow, thermal mass flow meter, pole length 250mm, flow rate 0.1 ... 120 Nm/s, built-in 4G-IoT module
IAS-FS04-Lite01	Lite Compressed Air Audit Suit - Flow, thermal mass flow meter, pole length 400mm, flow rate 0.1 ... 120 Nm/s, built-in 4G-IoT module
IAS-FS01-Lite02	Lite Compressed Air Audit Suit - Flow, pitot tube flow meter, pole length 250mm, flow rate 5 ... 300 Nm/s, built-in Wi-SUN module
IAS-FS02-Lite02	Lite Compressed Air Audit Suit - Flow, pitot tube flow meter, pole length 400mm, flow rate 5 ... 300 Nm/s, built-in Wi-SUN module
IAS-FS03-Lite02	Lite Compressed Air Audit Suit - Flow, thermal mass flow meter, pole length 250mm, flow rate 0.1 ... 120 Nm/s, built-in Wi-SUN module
IAS-FS04-Lite02	Lite Compressed Air Audit Suit - Flow, thermal mass flow meter, pole length 400mm, flow rate 0.1 ... 120 Nm/s, built-in Wi-SUN module

* For more order information plase consult sales