IAS-FS01 Series

Portable Measurement Intelligent Analysis

Compressed Air Analysis - Flow



Product Overview

IAS-FS01 is a portable flow measurement kit for compressed air systems with a built-in large-capacity lithium battery. Built-in 4G module enables remote monitoring. True wireless solution, set-and-forget installation and setup, plug and play. The plug-in pitot flowmeter can be installed online 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

Large capacity battery
Super long standby

4G Module For
Remote Monitoring

Extreme lower limit
of measurement

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

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)

Pressure

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

Temperature

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

Output

4 … 20 mA Output (Standard)	Flow rate / Temperature / Pressure (Configurable)
Pulse (Standard)	Consumption / Alarm
Digital Output (Standard)	Modbus RTU (RS485)
Wireless Communication	Bluetooth Wi-SUN (Option) IOT-4G (Option)
Connector	2 × 5pin M12, Female

Operating Environment

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

Display & Data Log

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

Power

Battery Capacity	312 Wh
Charging Battery	100 ~ 240 VAC 50 ~60 Hz

Others

Process Connection	G1/2"(ISO 228-1)
EMC	Compliant with IEC 61326-1
Weight	13.9 kg
Dimension	560×325×193 mm(L×W×H)

* 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	Compressed Air Audit Suit - Flow, pole length 250mm, flow rate 5...300 Nm/s, built-in 312 Wh rechargeable battery, built-in 4G-IOT module

* For more order information plase consult sales

https://yua-instruments.com/

A：Room R2–B, Gaoxin Industrial Park, No. 206 Gaoxin South 7th Road, Yuehai Street, Nanshan District, Shenzhen, Guangdong, China

M：sales@yua–instruments.com