

IAS-FS-Lite Series

Portable Measurement Intelligent Analysis

Lite Compressed Air Analysis - Flow



Product Overview

IAS-FS-Lite is a portable flow measurement kit for compressed air systems. 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



**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	Operating Environment
Measuring Range 5 ... 300 Nm/s	Battery Box Operating Temperature -20 ... +60 °C
Accuracy ±(1.5% RD + 0.3% FS) [1% RD Option]	Medium Temperature -40 ... +150 °C
Medium Dry / wet air and non-corrosive gases	Operating Pressure 0 ... 1.7 MPa(a)
Reference Conditions 20 °C, 1 bar(a) – ISO 1217 (Configurable)	
Pressure	Display & Data Log
Measuring Range 0 ... 1.7 MPa(a)	Display 2.8" IPS LCD with capacitive touch
Accuracy ±0.5% FS	Data Log Max. 10,000,000 values
Temperature	Power
Measuring Range -40 ... +150 °C	Charging Battery 100 ~ 240 VAC 50 ~60 Hz
Accuracy ±0.5 °C	
Output	Others
4 ... 20 mA Output (Standard) Flow rate / Temperature / Pressure (Configurable)	Process Connection G1/2"(ISO 228-1)
Pulse (Standard) Consumption / Alarm	EMC Compliant with IEC 61326-1
Digital Output (Standard) Modbus RTU (RS485)	Weight 4.3 kg
Wireless Communication (Choose one of three) Bluetooth (Default) Wi-SUN (Option) IoT-4G (Option)	Dimension 558 × 261 × 135 mm (L×W×H)
Connector 2 × 5pin M12, Female	

* 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-Lite	Lite Compressed Air Audit Suit - Flow, pole length 250mm, flow rate 5...300 Nm/s, built-in 4G-IoT module
IAS-FS02-Lite	Lite Compressed Air Audit Suit - Flow, pole length 400mm, flow rate 5...300 Nm/s, built-in 4G-IoT module

* For more order information please consult sales

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IAS-DP-Lite Series

Portable Measurement Intelligent Analysis

Lite Compressed Air Analysis - Dewpoint



Product Overview

IAS-DP-Lite is a portable dewpoint measurement kit for compressed air systems. Built-in 4G module enables remote monitoring. True wireless solution, set-and-forget installation and setup, plug and play. Just connect the gas through the $\Phi 6$ mm quick connector to start measuring

It can integrate a variety of the most advanced humidity sensors: FIXINST-P polymer film capacitive sensor, FIXINST-A ultra-fast response aluminum oxide sensors with innovative moisture sensitive materials and processes, FIXINST-Q ultra-low dewpoint sensitivity dual-resonance QCM sensor. It provides IAS-DPx the ability to accurately measure a wide range of dewpoint from $-110 \dots +60$ °Ctd

MEMS-based pressure sensor can monitor dewpoint and online pressure simultaneously. FixInst's patented sensor materials and processes provide measurements with high sensitivity and ultra-fast response speed. Up to 10+ points of dewpoint calibration and multi-point temperature compensation provide measurement accuracy up to ± 2 °Ctd (see technical data sheet). Resistant to condensation, particulate pollution, oil vapor and most chemicals

Product Advantages



**4G module for
remote monitoring**



**High accuracy
Ultra-fast response**



**Easy Installation
Plug and play**

Technical Data

Measuring Range	Operating Environment
Dewpoint IAS-DP01-Lite -60 ... +60 °Ctd IAS-DP02-Lite -80 ... +20 °Ctd IAS-DP03-Lite -110 ... +20 °Ctd Temperature -40 ... +100 °C Pressure 0 ... 1.7 MPa(a) (Option)	Battery Box Operating Temperature -30 ... +70 °C Storage Temperature -40 ... +80 °C Relative Humidity 0 ... 95 %RH Sample Gas Flow Rate > 1 L/min Pressure 0 ... 1.7 MPa(a)
Accuracy	Power
Dewpoint (Air or Nitrogen) +20 ... -60 °Ctd ±2 °Ctd -60 ... -110 °Ctd ±3 °Ctd Temperature (Customizable) 0 ... +50 °C ±0.3 °C (Standard) -40 ... 0 °C & +50 ... +100 °C ±0.5 °C (Standard) Pressure Accuracy Accuracy @23 °C ±0.3 %FS Pressure drift with temperature ±0.001 MPa/10 °C	Charging Battery 100 ~ 240 VAC 50 ~60 Hz
Response Time	Others
Dewpoint 63% [90%], Reference: 20 °C, 1bar(a), 4L/min -50 → +20 °Ctd 20 sec [40 sec] +20 → -50 °Ctd 1 min [3 min] Pressure < 1 sec	Process Connection 6 mm Stainless steel quick connectors Sensor Filter Stainless steel sinter filter (Filtration class 30~45 µm) EMC Compliant with IEC 61326-1 Dimension 410×335×145 mm(L×W×H) Weight 4.4 Kg

Order Information

Model	Description
IAS-DP01-Lite	-60 ... +60 °Ctd, Lite Compressed Air Audit Suit-Dewpoint, Pressure range 0 ... 16 bar(g), built-in 4G-IoT module
IAS-DP02-Lite	-80 ... +20 °Ctd, Lite Compressed Air Audit Suit-Dewpoint, Pressure range 0 ... 16 bar(g), built-in 4G-IoT module
IAS-DP03-Lite	-110 ... +20 °Ctd, Lite Compressed Air Audit Suit-Dewpoint, Pressure range 0 ... 16 bar(g), built-in 4G-IoT module

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IAS-PM01-Lite Series

Portable Measurement Intelligent Analysis

Lite Compressed Air Analysis Kit - Power



Product Overview

IAS-PM01-Lite is a portable power measurement kit for compressed air systems. Flexible Rogowski coil can be easily installed even in small spaces. Universal current up to 1000 A, no need to match different current transformers according to on-site working conditions. It can measure power, electric energy, current, voltage and power factor, etc. Each sensor connector has a unique set-and-forget socket, eliminating the need for any complicated and professional wiring skills



**4G module for
remote monitoring**



**Rogowski coil
Easy installation**



**Set-and-forget
operation and
configuration**

Technical Data

Voltage Input		Operating Environment	
Voltage Input	80 ... 620 VAC (P-P)	Storage Temperature	-40 ... +85 °C
Current Input	10 ~ 1000 A	Humidity	5 ... 95% RH @ 50°C (non- condensing)
Frequency	45 ~ 65 Hz		
Accuracy		Others	
Voltage	0.2 %	Wiring Methods	3PH3W
Current	0.5 % (10~1000 A 10 A accuracy not guaranteed for current below 10 A)	Weight	4.2 kg
Power Factor	±0.005	Size	410 × 335 × 145 mm (L×W×H)
Active Power	IEC62053-22 Class 0.2		
Active Energy	IEC62053-22 Class 0.2S		
EMC			
Electrostatic Discharge	Level IV (IEC61000-4-2)	Conductivity Resistance	Level III (IEC61000-4-6)
Radiation Immunity	Level III (IEC61000-4-3)	Magnetic Fields Immunity	0.5mT (IEC61000-4-8)
Rapid Transient Immunity	Level IV (IEC61000-4-4)	Conducted & Radiated Emissions	Class B (EN55022)
Surge Immunity	Level IV (IEC61000-4-5)		

Order Information

Model	Description
IAS-PM01-Lite	Lite Compressed Air Audit Suit – Power Meter, built-in 4G-IoT module