IAS-DPPS-Lite Series

Portable Measurement Intelligent Analysis

Lite Compressed Air Analysis - Dewpoint / Pressure



Product Overview

IAS-DP-Lite is a portable dewpoint measurement kit for compressed air systems. Optional 4G module enables remote monitoring. TOptional 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. Just connect the gas through the Φ6 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 ... +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

Optional 4G / Wi-SUN module

High accuracy Ultra-fast response

Handheld Taken anywhere

Technical Data

Measuring Range

Dewpoint	
IAS-DPPS01-Lite	-60 … +60 °Ctd
IAS-DPPS02-Lite	-80 … +20 °Ctd
IAS-DPPS03-Lite	-110 … +20 °Ctd
Temperature	-40 … +100 °C
Pressure	0 … 1.7 MPa(a) (Option)

Operating Environment

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

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

Power

Supply Voltage & Power	18 ... 36 VDC 1.5W @ 24VDC (Wi-SUN)
	18 ... 36 VDC 6W @ 24VDC (IoT-4G)

Others

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
Material	PP

Response Time

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

Order Information

Model	Description
IAS-DPPS01-Lite01	-60 ... +60 °Ctd, Pressure range 0 … 16 bar(g), Lite Compressed Air Audit Suit-Dewpoint & Pressure, with IoT-4G module
IAS-DPPS02-Lite01	-80 ... +20 °Ctd, Pressure range 0 … 16 bar(g), Lite Compressed Air Audit Suit-Dewpoint & Pressure, with IoT-4G module
IAS-DPPS03-Lite01	-110 ... +20 °Ctd, Pressure range 0 … 16 bar(g), Lite Compressed Air Audit Suit-Dewpoint & Pressure, with IoT-4G module
IAS-DPPS01-Lite02	-60 ... +60 °Ctd, Pressure range 0 … 16 bar(g), Lite Compressed Air Audit Suit-Dewpoint & Pressure, with Wi-SUN module
IAS-DPPS02-Lite02	-80 ... +20 °Ctd, Pressure range 0 … 16 bar(g), Lite Compressed Air Audit Suit-Dewpoint & Pressure, with Wi-SUN module
IAS-DPPS03-Lite02	-110 ... +20 °Ctd, Pressure range 0 … 16 bar(g), Lite Compressed Air Audit Suit-Dewpoint & Pressure, with Wi-SUN module