

IAS-DPx Series

Portable Measurement Intelligent Analysis

Compressed Air Analysis - Dewpoint



Product Overview

IAS-DPx is a portable dewpoint measurement kit for compressed air systems. It has a built-in large-capacity lithium battery with a standby time of more than a week. 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 dew point 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



Large capacity battery
Super long standby



4G module for
remote monitoring



High accuracy
Ultra-fast response



Easy Installation
Plug and play

Technical Data

Measuring Range	Operating Environment
Dewpoint IAS-DP01 -60 ... +60 °Ctd IAS-DP02 -80 ... +20 °Ctd IAS-DP03 -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	Battery Capacity 124 Wh 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 346×221×103 mm(L×W×H) Weight 5.5Kg

Order Information

Model	Description
IAS-DP01	-60 ... +60 °Ctd, Compressed Air Audit Suit-Dewpoint, built-in 124 Wh rechargeable battery, built-in 4G-IOT module
IAS-DP02	-80 ... +20 °Ctd, Compressed Air Audit Suit-Dewpoint, built-in 124 Wh rechargeable battery, built-in 4G-IOT module
IAS-DP03	-110 ... +20 °Ctd, Compressed Air Audit Suit-Dewpoint, built-in 124 Wh rechargeable battery, built-in 4G-IOT module

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