



便于携带
安装简单



出色的
长期稳定性



FixInst 专利传感器
材料及工艺



F303x Series Dewpoint Meter

Dewpoint & Pressure Multi-Parameter
Portable Monitor



DEWPOINT METER

Product Overview

The F303x series dewpoint meter can integrate a variety of the most advanced humidity sensors: polymer film capacitive sensors, ultra-fast response aluminum oxide sensors with innovative moisture sensitive materials and processes, and dual resonance QCM sensors with sensitivity at ultra-low dewpoint. These sensors provide F191x with the ability to accurately measure a wide range of dewpoints from -100 to +60 °Ctd

Revolutionary self-calibration circuit design automatically compensates for circuit drift caused by temperature, contamination, and aging, providing long-term stability and high accuracy measurements

Innovative temperature compensation algorithm and multi-point temperature compensation calibration, greatly improving the sensor's temperature drift and ensuring high-precision dew point measurement over a wide temperature range

Product Advantages



Integrated Display

Display various dewpoint parameters simultaneously



Ultra-wide Range

-100 ... +60 °Ctd
Optional measuring range



Portable Measurement

Portable and easy to install
Simple to operate

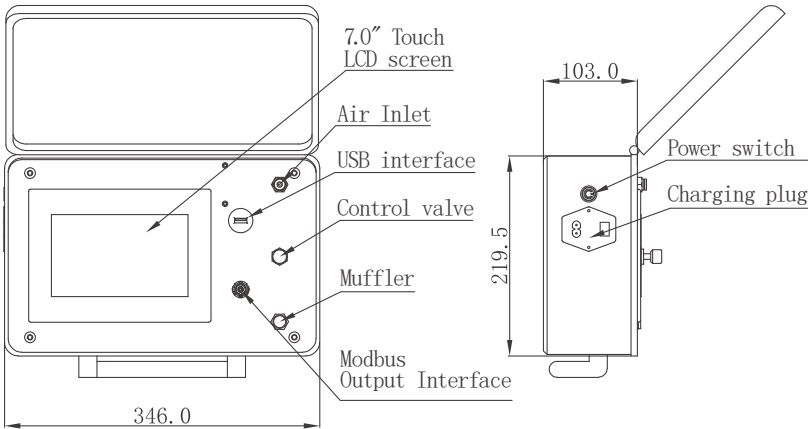





Innovative Technology

FixInst patented sensor materials and processes

- Compatible with various sensor technologies: polymer thin film, aluminum oxide, QCM crystal type sensors that can be used in different measurement ranges
- MEMS based pressure sensor for simultaneous monitoring of dewpoint and pressure
- 10+ points of dew point calibration and multi-point temperature compensation provide accurate measurements up to ± 2 °Ctd (Refer to "Technical Data")
- Built-in 96 Wh high-capacity lithium battery to avoid interruption of data recording due to accidental power failure
- Ultra-fast response time
- Outstanding long-term stability
- Anti-Condensation, resistant to particulate contamination, oil vapor and most chemicals
- High resistance to electrical disturbance
- 7.0" Touch LCD screen, easy to operate, what you see is what you get
- Easy to install and view data, start measuring by connecting the gas via a 6 mm quick coupling

Product Dimensions



Sensor Model	FixInst-P	FIXINST-A	FIXINST-Q
Sensor Type	Polymer Capacitive Sensors	Aluminum Oxide Sensors	QCM Sensor
Sensor View			
Application in > -60 °Ctd : Refrigerant Dryer, Desiccant Dryer, Industrial Gas	✓		
Application in -80 ... -60 °Ctd : Desiccant Dryer, Nitrogen Generators, Industrial Gas		✓	
Application in -120 ... -80 °Ctd : High-purity industrial gas		○	✓
Containing contaminated particles	✓	✓	

* Sensor FIXINST-A FIXINST-Q have obtained relevant patents
 O Model F139C-Puri, F305B

Product Applications

Dewpoint meters are widely used in dry purification, chemical, petrochemical, power engineering, and food & medicine etc.



01

Gas monitoring of drying equipment

* Refrigeration Dryer Desiccant dryer
 Membrane dryer



02

Vessel and pipeline gas monitoring



03

Medical and surgical gas monitoring



04

Moisture monitoring of industrial gases



05

Monitoring of dry and clean environments



06

Dryness test for food and drug additives

Technical Data

Measuring Range		Display / Data Log	
Dewpoint		Display	7.0" Touch LCD screen
F303Ax	-60 ... +60 °Ctd	Data Log	Max 16G USB Flash Disk
F303Bx	-80 ... +20 °Ctd		
F303Cx	-110 ... 0 °Ctd		
Temperature	-40 ... +100 °C		
Pressure	0 ... 1.7 MPa(a) (Option)		
Accuracy		Power	
Dewpoint (Air or Nitrogen)		Power	220 VAC 10 W
+60 ... -60 °Ctd	±2 °Ctd	battery capacity	96 Wh
-60 ... -100 °Ctd	±3 °Ctd	Charging batteries	100 ~ 240 VAC, 50 ~ 60 Hz
Temperature (Customized)			
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		
Response Time		Operating Environment	
Dewpoint: 63% [90%], Reference: 20 °C, 1bar(a), 4L/min		Operating temperature	0 ... +50 °C
-50 → +20 °Ctd	20 sec [40 sec]	Storage temperature	-40 ... +80 °C
+20 → -50 °Ctd	1 min [3 min]	Relative humidity	0 ... 95 %RH
Pressure	< 1 sec	Sample gas flow rate	> 1 L/min
		Pressure	0 ... 1.7 MPa(a)
		Other	
		Process connection	6 mm Stainless steel quick connector
		Sensor filter	Stainless steel sinter filter (Filtration class 30~45 um)
		EMC	Compliant with IEC 61326-1

Order Information

Model	Description
F303A	Dewpoint monitor -60 ... +60 °Ctd, 7.0" Touch LCD screen, Portable case type
F303A-P	Dewpoint monitor -60 ... +60 °Ctd, 7.0" Touch LCD screen, Portable case type, Integrated pressure sensor, Simultaneous output of pressure dewpoint and atm. dewpoint
F303B	Dewpoint monitor -80 ... +20 °Ctd, 7.0" Touch LCD screen, Portable case type
F303B-P	Dewpoint monitor -80 ... +20 °Ctd, 7.0" Touch LCD screen, Portable case type, Integrated pressure sensor, Simultaneous output of pressure dewpoint and atm. dewpoint
F303C	Dewpoint monitor -110 ... 0 °Ctd, 7.0" Touch LCD screen, Portable case type
F303C-P	Dewpoint monitor -110 ... 0 °Ctd, 7.0" Touch LCD screen, Portable case type, Integrated pressure sensor, Simultaneous output of pressure dewpoint and atm. dewpoint

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