HM–200C Heat Tracing Hygronom (Resistance–Capacitance)

Overview

High-temperaure hygronom is also called high-temperauture moisture meter or high-temperauture dew-point meter, which is used to measure humidity of flue gas emitted by pollution source. According to measured humidity, it converts wet gas concentration into dry gas concentration, widely applied in industrial online humidity monitoring.

HM-300C heating tracing hygronom (resistance-capacitance) is a self-developed product, which employs microprocessor as the core, and imported high-temperaureresistance-capacitance temperature & humidity sensor as measuring unit, matched with multiple signal output methods including 4-20mA, RS232, RS485 and etc. The installation method adopts heat tracing pipeline installation. During sampling process of CMES, it measures humidity of flue gas and transmits the data to IPC through RS232.

Technical Parameter

Technical parameter	
Humidity range	0~40%Vol / 0~100%RH
Humidity accuracy	< ±1.5%RH (5～95%RH)
Humidity stability	< ±1%RH/year
Humidity response time	T90＜10s
Output/input	
Output signal	4-20mA/RS232/RS485
Service voltage	+24VDC
Working condition requirement	
Working humidity	0~100%RH
Working temperature	−30°C～+200°C
Mechanical performance	
Material	Stainless Steel
Probe dimension	L=58mm,Φ52mm
Circuit board dimension	210mm*150mm*40mm

Feature

1. Adopt imported high-temperature temperature & humidity sensor with CE certification; able to measure accurately and steadily.
2. Self-contained temperature compensation; temperature variation has little effect on humidity; high measurement linearity.
3. Multiple output methods are available for selection, which are widely applicable to different on-site platforms.
4. Small and compact structure, able to be integrated in the CEMS system; not only can measure humidity and participate in calculations, but also reduce flange trepanning on site.
5. Built-in ultrafilter to prevent dust interference.
6. The whole process is accompanied by high temperature tracing to avoid water condensation and sample gas corrosion, effectively ensuring the accuracy and service life of the sensor.

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