THM88MAX www.eyc-tech.com Industrial dew point transmitter with display



Features

- Large digital display, 330° rotatable for convenient monitoring
- Real-time display, on-screen buttons to adjust dew point offset
- A new generation of sensors, faster response to low humidity
- Temperature compensation mechanism to reduce the influence of ambient temperature on dew point value

| Applications |

Compressed air system / Air separation equipment / Freezer / Adsorption machine / Plastic dryer / Industrial drying process / Paper / Chemical process monitoring

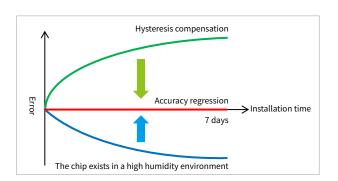


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| Specifications |

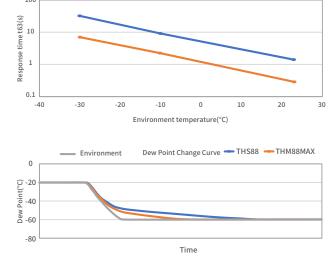
Input		Environmental	
Input sensor	Capacitive humidity sensor & Pt100	Measuring medium	Air
Operating range of dew point	-40 +20 dp°C	Operating Temp.(With body and display)	0 +60°C
		Operating Humid.(With body and display)	0 95%RH(Non-condensing)
Output		Probe operating Temp.	-40 +60°C
Max. scaling range	Dew point∶-40 +20 dp°C	Storage Temp.	-20 +60°C
Dew point switch to another(UI)	Frost point: -40 0 fp°C		
	Absolute humid.(Volume): 050000 ppm/v	Installation	
	Absolute humid.(Weight): 050000 ppm/w	Duct type	1/2"G, 1/2"PT
Output signal	Standard 4 20 mA+RS-485 /		1/2"PT movable thread
	0 10 V+RS-485 on request		
Signal connection	3-wire	Protection	
Load resistance	Current output 500 Ω	IP rating	Housing IP65
	Voltage output 100 KΩ		Filter: IP20
Output calibration	Software	Electrical protection	■ Reverse polarity
(ZERO & SPAN) adjustment range			■ Over-voltage
Response time t90(Temp. at+25°C)	<20 sec		■ Short-circuit
Accuracy		Material	
Accuracy	±1 dp°C (at -20 +20 dp°C)	Cover	PC
	±1.5 dp°C(at -40 +20 dp°C)	Housing	SUS 304
		Probe	Sintered SUS316
Electrical		Weight	168 g
Power supply	DC 24 V±10%		
Current consumption	DC 24 V / 50 mA		
Electrical connection	M12 connector		

| Hysteresis Compensation |



In the application of low dew point temperature, continuous drying of the wafer may cause the measurement value such as the blue curve to cause the accuracy of the initial use to not meet the product standard. The firmware is relieved by the compensation (hysterics compensation) of the green curve so that the product accuracy standard can be reached at the initial stage of installation.

| Response Characteristic |



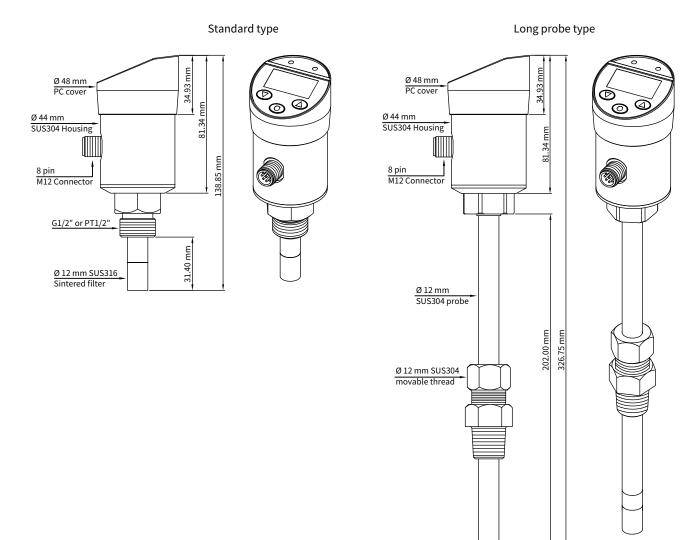
31.40 mm

Ø 12 mm SUS316 Sintered filter

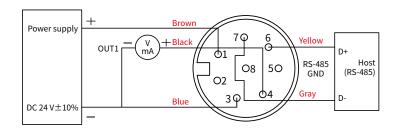


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| Dimension |



| Diagram |



M12 connector





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Ordering Guide |



THM88MAX



A:-20...+20°C B:-40...+20°C

Connector



1:1/2"PT 2:1/2"G

3: 1/2"PT movable thread (Long probe type only)

Optional



L: Long probe type

W: Customized

| Dew Point Automatic Inspection System |



- System Facility
- Humidity generator
- Dew point mirror
- Laboratory level facility to produce products, and automatic QC inspection sheet printing and factory report

USB to Isolated RS-485 Application



- Require Device
- PC / RS-485 to USB Converter / Power supply / UI software

$Additional\ Option\ Test\ Report\ \big|\ {}_{\text{For more detailed information please contact us.}}$

ILAC / TAF

YUDEN-TECH CO.,LTD. Calibration Laboratory - (ILAC / TAF) Test report. (TAF accreditation: 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range	
Dew point transmitter	≧ -80 dp°C ≦ 60 dp°C	

ISO 9001

Project	Measurand level or range	
Dew point	≧ -95 dp°C ≦ 60 dp°C	