

HG602-G
Corrosion-Resistant
Dew Point Transmitter
Selection Table



HENGKO Technology Co., LTD

Catalog

1.Product introduction 2

2.Product features 3

3.Technical specifications 4

4.Product List 5

5.Accessory Selection 6

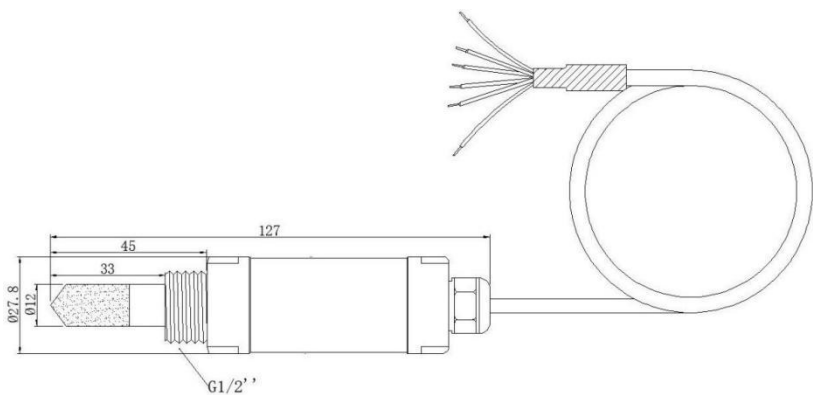
Contact Us 8

1.Product introduction

HG602-G is an online dew point transmitter specifically designed for industrial corrosive environments, delivering precise dew point measurements. It is widely used in battery anti-corrosion workshops, chemical production, pharmaceutical and food processing, electronics manufacturing, medical gases, and high-voltage gas insulation equipment. The HG602-G effectively addresses issues faced by traditional dew point transmitters in corrosive environments, such as inaccurate data, measurement failure, and short lifespan.

Built with corrosion-resistant materials and featuring a special anti-corrosion surface treatment, the HG602-G withstands acidic, alkaline, and salt mist conditions, ensuring stable operation in harsh environments. Its advanced sensor technology provides fast, stable, and repeatable dew point monitoring, meeting the strict humidity control requirements of industrial applications.

Additionally, the HG602-G series is compact and highly integrated, making it ideal for installation in space-constrained pipelines. It can also be seamlessly integrated with PLCs, DCS, and various configuration software systems, offering industrial users a flexible and convenient installation and operation experience.



Product size

2.Product features

(1) Stainless steel housing, compact and highly integrated.

(2) Support RS485 output and one analog output at the same time:

A. 4-20mA current mode (HG602-G4) ,

Supports RS485 output and one 4-20mA analog output at the same time

B. 0-5V voltage mode (HG602-G5) ,

C. Supports RS485 output and one 0-5V analog output at the same time

D. 0-10V voltage mode (HG602-G1) ,

E. Supports RS485 output and one 0 - 10V analog output at the same time

(3) Analog output 15 bit high resolution, digital output can be selected 0.1 or 0.01 resolution.

(4) Support single register and multi-register reading.

(5) With anti condensation function, which can keep the sensor synchronized in high humidity environments.

(6) The digital output can simultaneously read the dew point, humidity and temperature.

(7) Using the standard Modbus-RTU protocol, it can easily realize the interconnection with PLC, DCS and various configuration software.

(8) Equipped with a heating anti-condensation function.

(9) 10V~28V ultra-wide voltage input, power polarity protection, anti-reverse connection function.

3.Technical specifications

Category	Technical specifications and features
Power supply	DC 10V ~ 28V (12V power supply recommended)
Power dissipation	< 0.1W
Dew point range	-60 ~ +20℃ (Within the range, you can set it as required)
Dew point measurement accuracy (in air or nitrogen)	See Figure 1
Operating ambient	Temperature: -40 ~ +60℃
	Humidity:0 ~ 100%RH (Recommend <90%RH)
Output	Analog output 4-20mA/0-5V/0-10V
	Digital output RS485 (simultaneous reading of temperature, humidity, and dew point)
Digital output resolution	0.01℃ / 0.1℃ selectable 0.01%RH / 0.1%RH selectable
Communication baud rate	1200、2400、4800、9600、19200、115200 settable, default 9600 bps
Acquisition frequency	The fastest 1s response, other can be set by PLC
Byte format	8 data bits, 1 stop bit, no check
Pressure	16 bar

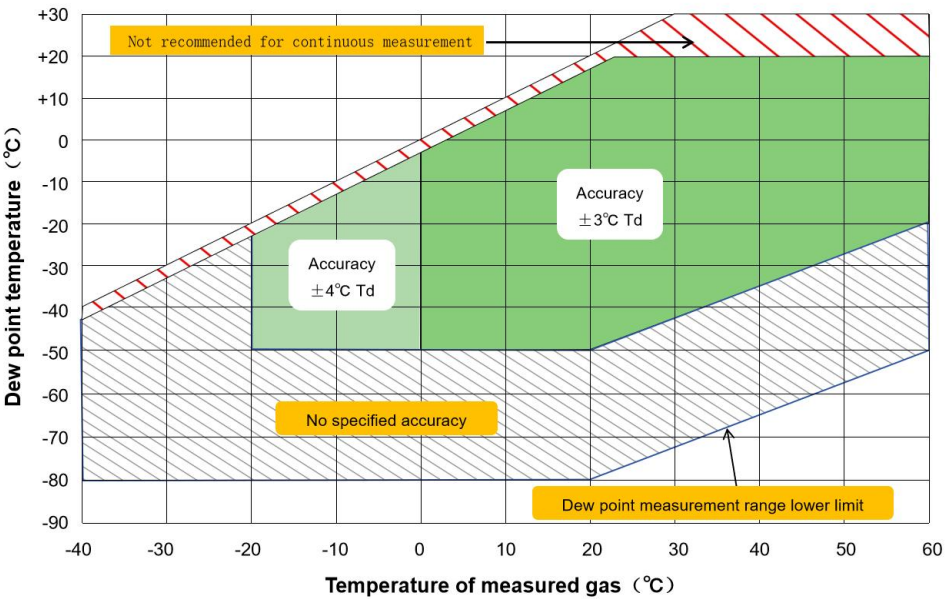
Measurement Range

Dew point

Measurement range-60 ~ +20℃

Accuracy±3℃ (± 5.4℉) Td

Accuracy within the dew point range



4.Product List

Model	Signal Output	Output Value	Dew point range	Operating Temperature	Picture
HG602-G4	4-20 mA +RS 485	Dew point	-60~+20℃	-40~+60℃	
HG602-G5	0-5V +RS 485	Dew point	-60~+20℃	-40~+60℃	
HG602-G1	0-10V +RS 485	Dew point	-60~+20℃	-40~+60℃	

5. Accessory Selection

a. 12V1A power adapter

—— Easy for customers to quickly connect power when there is no PLC or other weak power supply.

Please contact the salesperson for the selection of pin specifications.



b. 485 to USB module

—— Compatible with Windows series, Mac OS, Linux and other systems, easy and fast to read.



c. Gas Sampling Kits

—By using gas sampling kits, you can indirectly measure the temperature, humidity and dew point data in the environment. The gas sampling kit can be used with different devices to solve the problem of measuring data under special working conditions, such as ultra-high temperature, ultra-high pressure, and harsh environments. The measurement inlet can be screwed directly into the probe or connected to a threaded adapter for sealing.



(1)



(2)



(3)



Contact Us

HENGKO Technology Co., Ltd.

Address: Building 65, No. 43, Fukang Road, Pinghu Street, Longgang District, Shenzhen, China

Contact number: 0086-0755-88823250

E-mail: ka@hengko.com

Website: www.hengkometer.com