

**Main Specifications**

▼ **Filter**  
 Process connection ▼  
 G 1/2" with stainless steel mesh filter (75 μm) or stainless steel sintered filter (30 μm)  
 1/2" NPT with stainless steel mesh filter (75 μm) or stainless steel sintered filter (30 μm)  
 UNF5/8" with stainless steel sintered filter (100 μm)  
 Filter protection case material ▼  
 SS 304 / 316  
 Max. pressure resistance ▼  
 100 bar  
 Filter outer dia. & length ▼  
 Please refer to dimension  
 ▼ **Electrical connector**  
 M12-5pin metal connector  
 ▼ **Dew point measurement range**  
 -40...60°C Td (Standard)  
 -60...60°C Td (Option)  
 ▼ **Body ambient temperature**  
 -40...85°C  
 ▼ **Dew point unit**  
 (Td) Dew point temperature  
 (Tf) Frost point temperature  
 (V) PPMv  
 (W) PPMw  
 ▼ **Frost / Dew point max. adjustable scale range**  
 -100~+85°C  
 ▼ **Protection level**  
 IP65  
 ▼ **Electromagnetic interference**  
 EN61326-1:2013 Emission  
 CISPR11:2009+A1:2010 Group 1 Class B  
 EN61326-1:2013 Immunity  
 IEC 61000-4-2:2008  
 IEC 61000-4-3:2006+A1:2007+A2:2010  
 IEC 61000-4-8:2009

**Other Specifications**

▼ **Analog output**  
 One output channel  
 3-wire loop circuit  
 Current output:  
 4~20mA (standard)  
 Voltage output:  
 0..1V / 5V / 10V  
 ▼ **Digital output (build-in)**  
 RS485 Modbus  
 ID - 1...247  
 Baud rate - 9600 / 19200 / 38400 / 57600 / 115200  
 Data format - N81 / N82 / E81 / E82 / O81 / O82  
 ▼ **PNP alarm output (option)**  
 Alarm element: transistor  
 Current capacity: 50mA  
 Operating voltage:  
 Max. 30VDC  
 Parameter setting range:  
 Set point - (-9999 to 9999)  
 Hysteresis - (0 to 9999)  
 Delay - (0 to 3600 sec.)  
 With signal isolation function & latch on/off function  
 ▼ **Dew point accuracy (Including non-linearity, hysteresis, and repeatability)**  
 ±2°C Td@25°C (-40...60°C Td)  
 ±3°C Td@25°C (-60...-40°C Td)  
 ▼ **Power supply**  
 DC: 15...35VDC  
 AC: 12...29VAC  
 ▼ **Power consumption (25°C, V+24VDC)**  
 Current output: max. 30mA  
 Voltage output: std. 10mA  
 PNP alarm output: std. 10mA  
 ▼ **Output load**  
 Current output: < 400Ω  
 Voltage output (0~1V): > 2KΩ  
 Voltage output (0~5V / 10V): > 10KΩ

**Industrial High Pressure Dew Point Transmitter Model: DPPT-HP**

**Introduction**

DPPT-HP industrial dew point transmitter is used to measure ambient and dew point temperature with stainless steel filter or mesh. DPPT-HP is suitable for compressed air systems, refrigerators, adsorption machines, plastic dryers, paper, chemical process monitoring, etc.



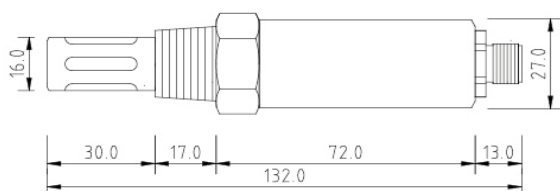
Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

**Features**

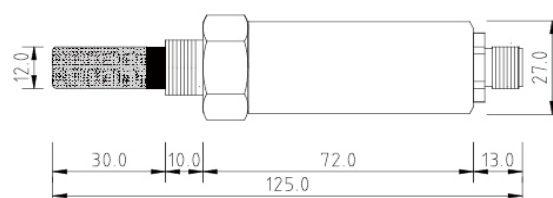
- 2-in-1 output - combined analog and digital output in one design
- RS485 – supports floating-point and integral point, metric and imperial unit
- PNP alarm output available
- Dew point units and corresponding value are adjustable for analog output type
- Full range temperature compensation, Accuracy ±2°C Td (@-40...60°C Td)
- Long-term stability with fast response to ambient change
- Max. ambient temperature 85°C, Max. pressure resistance 100bar

**Dimension**

G 1/2" NPT 1/2"



UNF 5/8"

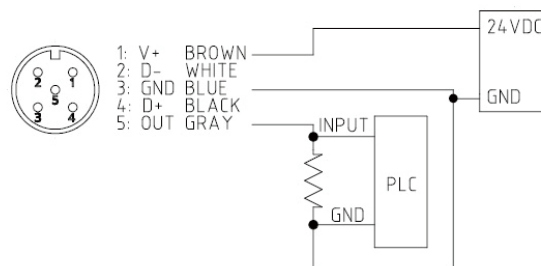


## Wiring diagram

Current, voltage output



PNP alarm output



## How to order

| DPPT-HP |      | Industrial High Pressure Dew Point Transmitter |    |   |                                   |
|---------|------|--|----|---|-----------------------------------|
|         | Code | Analog output signal                           |    |   |                                   |
|         | 420  | 4~20mA   |    |   |                                   |
|         | 010V | 0~10V  |    |   |                                   |
|         | 05V  | 0~5V   |    |   |                                   |
|         | 01V  | 0~1V   |    |   |                                   |
|         | PNP  | PNP alarm output                               |    |   |                                   |
|         | Code | Dew point measurement range                    |    |   |                                   |
|         | 1    | -20 to 60°C                                    |    |   |                                   |
|         | 2    | -40 to 60°C                                    |    |   |                                   |
|         | 3    | -40 to 20°C                                    |    |   |                                   |
|         | 4    | -60 to 60°C                                    |    |   |                                   |
|         | 5    | -60 to 20°C                                    |    |   |                                   |
|         | 0    | Others (special range setting)                 |    |   |                                   |
|         | Code | Process connection                             |    |   |                                   |
|         | 4G   | G1/2"  |    |   |                                   |
|         | 4N   | 1/2" NPT                                       |    |   |                                   |
|         | 5UNF | 5/8" UNF                                       |    |   |                                   |
|         | Code | Filter   |    |   |                                   |
|         | M    | Stainless steel mesh filter*1                  |    |   |                                   |
|         | S    | Stainless steel sintered filter                |    |   |                                   |
|         | Code | Other requests                                 |    |   |                                   |
|         | /A   | Third party notarized documents                |    |   |                                   |
|         | /B   | Inspection report                              |    |   |                                   |
|         | /C   | Tag  |    |   |                                   |
|         | /D   | 1/2" NPT stainless steel test chamber          |    |   |                                   |
|         | /E   | 1/2" NPT inlet & outlet ports                  |    |   |                                   |
|         | /F   | NPN alarm output                               |    |   |                                   |
| DPPT-HP | 420  | 2  | 4N | M | Order example: DPPT-HP-420-2-4N-M |

\*1: Stainless steel mesh filter are only available for G1 / 2 "and 1/2" NPT thread type