

# DT262

## Relative humidity transmitter



The DT 262 has been developed for high precision measurement of relative humidity and temperature. This transmitter is available with a range of outputs.

### Highlights

- Relative humidity measurement
- Range: RH 0–100%, Temp. -20 to +80° C
- Temperature range configurable on request: 0 to 50°C, 0 to +100°C, -20 to +80°C, -30 to +20°C, -30 to +70°C
- Output signal configurable on request: current/voltage depending on version

### Accessories and spare parts

You can check your hygrometer with the control kit HKC which is based on the principle of non-saturated salt solutions. Refer to technical data sheet CONTROL KIT

**Control Kit HKC**

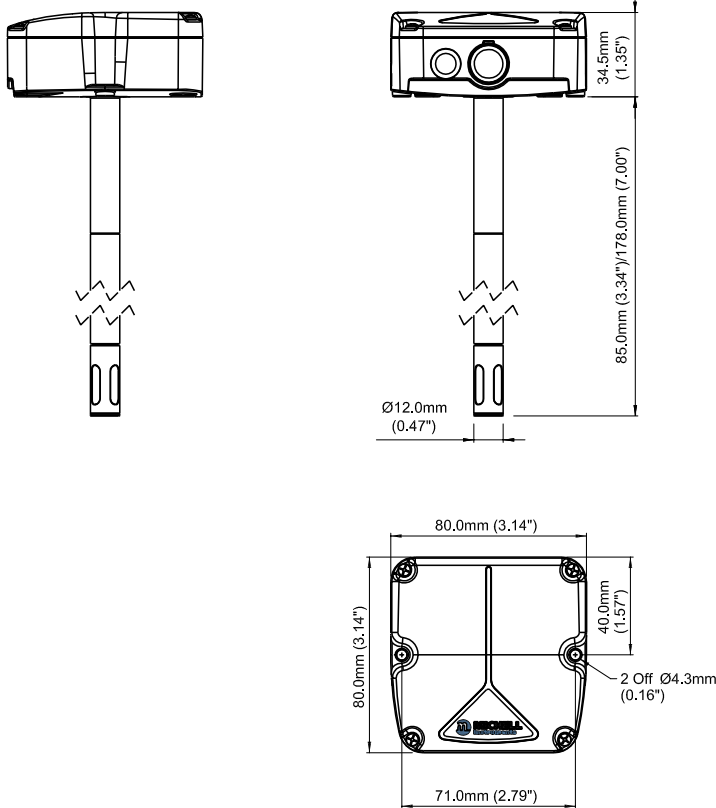
Flange for fixing stem

**FLA012**

### Technical Specifications

Performance	
<b>Measurement range (RH)</b>	0–100% RH
<b>Measurement range (T)</b>	-20 to +80°C
<b>Accuracy at 23°C Humidity</b>	<±2% RH (5–95% RH)
<b>Accuracy at 23°C Temperature</b>	±0.2°C (-10 to +50°C)
<b>Stability – RH Sensor</b>	±1% RH/year
<b>Response time – RH Sensor</b>	<10 sec typical (for 90% of the step change)
Electrical output/input	
<b>Output signal (RH) configurable on request</b>	4–20mA 0–1V, 0–5V, 0–10V
<b>Output signal (T) configurable on request</b>	4–20mA; Pt100Ω 1/3DIN direct (3 wires) 0–1V, 0–5V, 0–10V
<b>Supply voltage</b>	Output 4–20mA: E= 12–30VDC Output 0–10V: E= 15–30VDC Output 0–5V: E= 10–30VDC Output 0–1V: E= 8–30VDC
<b>Load resistance</b>	Output 4–20mA: Rload < (Uv-9)/0.02 Output 0–10V: R > 10 kΩ Output 0–5V: R > 5 kΩ Output 0–1V: R > 1 kΩ
<b>Current consumption</b>	Analog loops 2x20 mA max.
Operating conditions	
<b>Operating humidity</b>	Probe 0–100% RH Housing, Storage 0–98% RH (non-condensing)
<b>Operating temperature</b>	Probe -30 to +85°C Housing -30 to +70°C Storage -40 to +70°C
Mechanical specification	
<b>Ingress protection</b>	IP65
<b>Material</b>	PPO + POM
<b>Dimensions</b>	Housing 80 x 80 x 34.5mm Probe L=85/178mm, ø12mm
<b>Weight</b>	100g
<b>Electrical connections</b>	Screw terminals, tightening torque 1.5 mm² max. Output via wire to pitch from 3.5 to 6 mm diameter

**Dimensions**



**Electrical Connections**

Version A mA output	
Pin 1	Temperature output +
Pin 2	Temperature output -
Pin 3	RH output +
Pin 4	RH output -
Pin 3	Temperature output

Version A mA output, PT100 direct	
Pin 1	RH output +
Pin 2	RH output -
Pin 5	Pt100 direct
Pin 4	
Pin 3	

Version B/C/D Volt output	
Pin 1	V+
Pin 2	V-
Pin 3	Temperature output
Pin 4	RH output

**Order codes**

Michell Instruments relative humidity transmitter **DT262 A 2 0 Z10**

Humidity signal output	
4–20mA	A
0–10V	B
0–5V	C
0–1V	D

Temperature output signal	
No temperature output	0
Pt100 direct (standard)	1
0 to +100°C Range	2
-30 to +70°C Range	3
-30 to +20°C Range	4
0 to +50°C Range	5
-20 to +80°C Range	6

Protections and filters	
Polyester mesh + PTFE filter	Z10

Extension	
Length 85 mm	0
Length 178 mm	1

**Example: DT262 A 2 0 Z10**

Michell Instruments relative humidity transmitter DT262 with 4–20mA humidity signal output, 0 to 100°C temperature range, 85mm extension, Polyester mesh and PTFE filter.

**Please note: Michell Instruments adopts a continuous development programme which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: DT262\_0309**