

# WR285

## Digital Relative Humidity Transmitter - Remote for Pressurized Locals

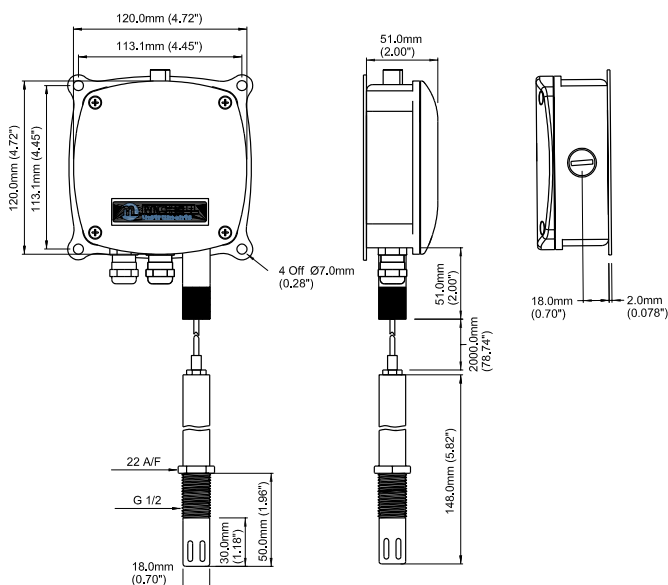


The WR285 relative humidity sensor uses the HYGROSMART module, integrated in the interchangeable probe. This device can be used in high-temperature applications due to the remote measurement element and its small overall size. The interchangeable probe allows for simple recalibration and lower maintenance costs.

### Highlights

- Up to 30 bar pressure
- Analog and digital output standard
- Interchangeable probe
- Analog output signals selectable through software
- Metric or imperial measurement units selectable through software

### Dimensions



### Technical Specifications

Performance	
<b>Measurement range (RH)</b>	0–100% RH
<b>Accuracy at 25°C Humidity</b>	<±2% RH (5–95% RH)
<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</b>	0–1 VDC, 0–5 VDC, 0–10 VDC 0–20 mA, 4–20 mA, RS485
<b>Supply voltage</b>	15 ≤ VAC ≤ 27 / 18 ≤ VDC ≤ 38
<b>Load resistance</b>	Current output: R ≤ 500 Ω
<b>Power consumption</b>	1.7 W
Operating conditions	
<b>Operating humidity</b> Probe, Housing, Storage	0–100% RH
<b>Operating temperature</b> Probe Housing Storage	-30 to +120°C / -22 to +248°F -30 to +70°C / -22 to +158°F -40 to +70°C / -40 to +158°F
Mechanical specification	
<b>Ingress protection</b>	IP67
<b>Material</b> Housing Probe	Aluminum die casting Stainless steel
<b>Dimensions</b> Housing Probe	120 x 120 x 51mm / 4.72 x 4.72 x 2.00" L=148mm, ø18mm / L=5.83", ø 0.71"
<b>Weight</b>	450g / 15.87oz
<b>Electrical connections</b>	Screw terminals

37-40-2

703

02 - 2636 - 0009

02 - 2636 - 4753

www.gilwoo.co.kr

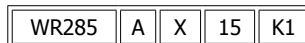
giltron@chol.com

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	<b>Control Kit HKC</b>
Interchangeable probe: Stainless steel with 2m / 6.5' cable with stainless steel mesh filter	<b>USTE015</b>
Stainless steel slotted cap with mesh filter	<b>K1</b>
Stainless steel slotted cap with PTFE filter	<b>Z1</b>
Cable USB for configuration "DIGICOR" (USB/TTL)	<b>F035263</b>
RS422/485 to PC (RD232) converter	<b>330185</b>

Electrical Connections	
Pin	
1	Power Supply V+
2	Power Supply V -
3	Output RS485 Ground
4	Ground
5	Not connected
6	Not connected
7	Output Channel 2 RH +
8	Output Channel 2 Ground
9	RS485 Data+
10	RS485 Data-
11	Not connected
12	Not connected
13	Output Channel 3 (not connected)
14	Output Channel 3 Ground (not connected)
<b>Do not connect pin 2 (V-) to pin 4 (Ground)</b>	

### Order codes

Relative humidity and temperature transmitter



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

Interchangeable probe	
Stainless steel probe with 2m / 6.5' cable output, and stainless steel cover with stainless steel mesh filter	15

Filters	
Stainless steel slotted cap with mesh filter	K1
Stainless steel slotted cap with PTFE filter	Z1

3가 40 - 2 703  
02 - 2636 - 0009 02 - 2636 - 4753

www.gilwoo.co.kr giltron@chol.com

#### Example: WR285 A X 15 K1

Relative humidity transmitter WR285 with 4–20 mA 2-wire humidity output, stainless steel probe with 2m / 6.5' cable, stainless steel cap with mesh filter.

**Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: WR285\_97193\_V1\_UK\_1009**