

WR295

Digital Relative Humidity Transmitter - Pressures up to 30 bar (3MPa)



The WR295 relative humidity transmitter includes the interchangeable HYGROSMART module. This interchangeable module allows you to recalibrate the transmitter simply by replacing the sensor head. As a result, maintenance costs are greatly reduced and down-time is minimized.

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

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Accuracy at 23°C / 73°F Humidity	<±2% RH (5–95% RH)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal	0–1V DC, 0–5 VDC, 0–10 VDC 0–20 mA, 4–20 mA, RS485
Supply voltage	15 ≤ VAC ≤ 27 / 18 ≤ VDC ≤ 38
Load resistance	Current output: R ≤ 500 Ω
Power consumption	1.7 W
Operating conditions	
Operating humidity Probe, Housing, Storage	0–100% RH
Operating temperature Probe Housing Storage	-30 to +200°C / -22 to +392°F -30 to +70°C / -22 to +158°F -40 to +70°C / -40 to +158°F
Mechanical specification	
Ingress protection	IP65
Material Housing Probe	Aluminum die casting Stainless steel
Dimensions Housing Probe	120 x 120 x 51mm / 4.72 x 4.72 x 2.00" L=134mm, ø12mm / L=5.27", ø0.47"
Weight	450g / 15.87oz
Electrical connections	Terminals
Display resolution	LCD, 2 lines x 16 characters

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
Cable USB for configuration "DIGICOR" (USB/TTL)	F035263
RS422/485 to PC (RD232) converter	330185
Stainless steel slotted cap with mesh filter	K1
Stainless steel slotted cap with PTFE filter	Z1
Stainless steel probe with 2m cable and stainless steel cover with mesh filter	USTE015

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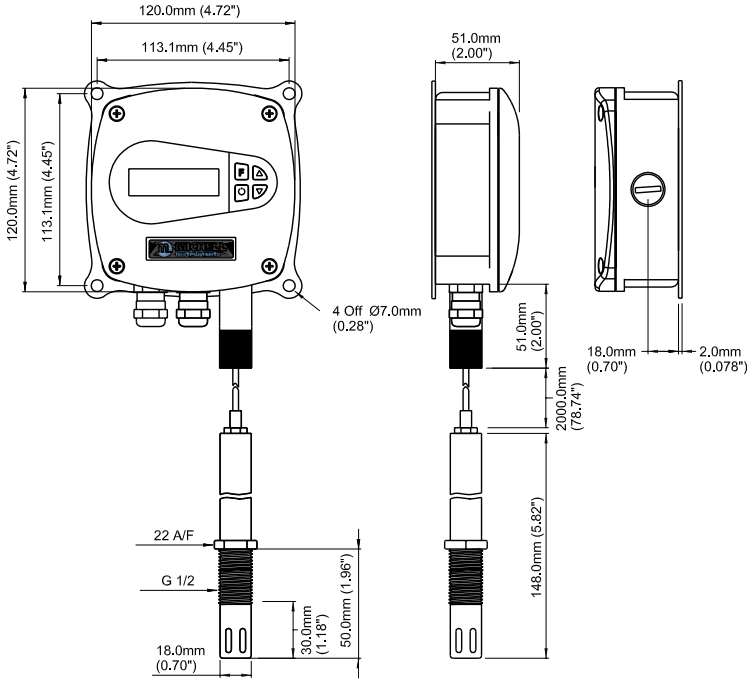
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Dimensions



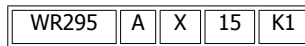
Electrical Connections

Pin	Description
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)

Do not connect pin 2 (V-) to pin 4 (Ground)

Order codes

Relative humidity and temperature transmitter



Output configuration	
4-20 mA	A
0-10 V	B
0-5 V	C
0-1 V	D
0-20 mA	E

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

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

Example: WR295 A X 15 K1

Relative humidity transmitter WR295 for pressurized recipients and pipes, with display, power requirement 24 VAC/VDC, 4-20 mA, interchangeable stainless steel probe with 2m / 6.5' cable, stainless steel cover and stainless steel 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: WR295_97195_V1_UK_1009