

# WR295

## Digital Relative Humidity Transmitter for Pressurized Applications up to 450 psi



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 machine down-time is minimized.

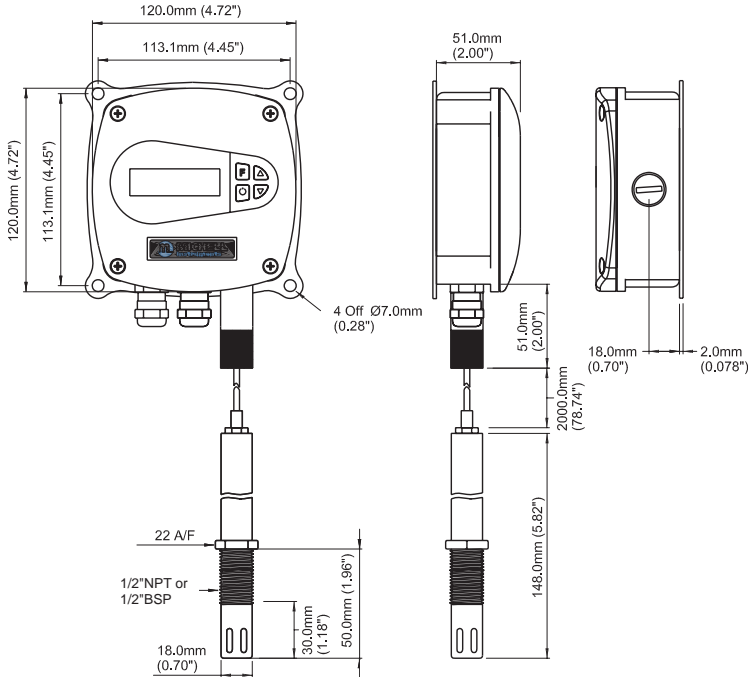
### Highlights

- Up to 450 psi / 30 bar pressure
- Analog and digital output standard
- Interchangeable probe
- Analog output signals selectable through software
- Metric or US measurement units selectable through software

Technical Specifications	
<b>Performance</b>	
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)
<b>Electrical output/input</b>	
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
<b>Operating conditions</b>	
Operating humidity Probe, Housing, Storage	0–100% RH
Operating temperature	
Probe	-25 to +390°F / -30 to +200°C
Housing	-25 to +160°F / -30 to +70°C
Storage	-40 to +160°F / -40 to +70°C
<b>Mechanical specification</b>	
Ingress protection	IP65
Material	
Housing	Aluminum die casting
Probe	Stainless steel
Dimensions	
Housing	4.72 x 4.72 x 2.00" / 120 x 120 x 51mm
Probe	L=5.27", ø0.47" / L=134mm, ø12mm
Weight	16oz / 450g
Electrical connections	Terminals
Display resolution	LCD, 2 lines x 16 characters

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

**Dimensions**



**Electrical Connections**

Pin	
1	V+
2	V -
3	RS485 output Ground
4	Ground
5	N.C.
6	N.C.
7	Output Channel 2 RH
8	Output Channel 2 Ground
9	RS485 Data+
10	RS485 Data-
11	Not connected
12	Not connected
13	Not connected
14	Not connected

**Do not connect V - (pin 2) to 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

Threaded Connection	
1/2" NPT male	N
1/2" BSP male	B

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

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

**Example: WR295 A X 15 K1 N**

Relative humidity transmitter WR295 with 4-20 mA outputs, interchangeable stainless steel probe with 6.5ft / 2m cable, stainless steel cover with mesh filter and 1/2"NPT connection.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: WR295\_1001US\_P



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