Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

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ДАТЧИКИ ВЛАЖНОСТИ

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

WM33 & 52

Relative Humidity and Temperature Transmitter, Wall Mount

The WM Series are wall-mounted units that have the ability to display and provide an output signal of % RH, dew point or absolute humidity and temperature. The WM Series offers excellent measurement accuracy and stability wherever a wall-mounted sensor is required.

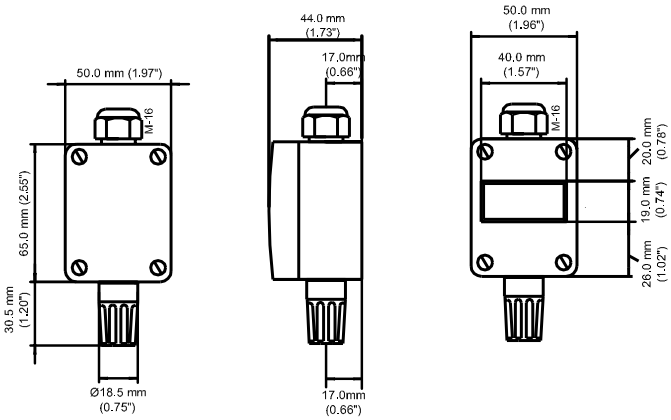
Highlights

- WM33 is designed for low cost HVAC applications
- WM52 has digital technology and is designed for accurate measurements in a controlled environment
- Easy to re-calibrate to maintain high accuracy

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-20 to +80°C (-4 to +176°F)
Accuracy at 23°C (73°F) Humidity	WM52: <±2% RH (10–90% RH) WM33: <±3% RH (30–80% RH)
Accuracy at 23°C (73°F) Temperature	WM52: ±0.2°C (±0.36°F) WM33: ±0.3°C (±0.54°F)
Stability – RH Sensor	±1% RH/year
Response time – RH Sensor	<10 sec typical without filter (for 90% of the step change)
Electrical output/input	
Output signal	4–20 mA, 0–1, 0–5, 0–10 V
Supply voltage	14–30 V DC, 5–30 V DC (0–1 V & mA output)
Operating conditions	
Operating humidity Probe, housing, storage	5–95% non-condensing
Operating temperature Probe, Housing Storage	 -30 to +85°C (-22 to +185°F) -40 to +85°C (-40 to +185°F)
PRT	
Measurement range	Pt100/1000: -50 to +200°C (-58 to +392°F)
Accuracy	Pt100/1000: ±0.15°C
Mechanical specification	
Housing material	White molded polymer
Weight	82g (2.89oz)
Electrical connections	Screw terminals
Alternative outputs	
Dew point	-40 to +60°C (-40 to +140°F)
Absolute humidity	0–200g/m³ (0-87.4gr/ft³)

Dimensions



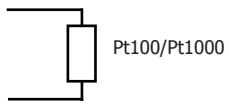
Accessories and Spare Parts

19mm (0.75") Slotted protection cap white	**A000001**
19mm (0.75") PVDF filter	**A000014**
19mm (0.75") PVDF filter with protection cap white	**A000016**
19mm (0.75") Mesh filter with protection cap black	**A000021**
19mm (0.75") Arrow stainless steel sintered filter 5/10/20 µm	**A000025/26/27**
19mm (0.75") Foil filter 2µm with protection cap white	**A000041**
Oleophobic foil filter 0.7µm with protection cap white	**A000043**
19mm (0.75") Foil filter 1.5µm with protection cap white	**A000045**
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	**HKC**

WM33 & 52

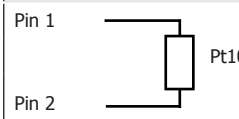
Electrical Connections

3/4 wire V DC power supply voltage output



Pin 2	Output temperature +
Pin 3	Common ground
Pin 4	Output RH +
Pin 5	Power supply V +

2 wire V DC power supply mA output



Pin 1	Output temperature -
Pin 2	Output temperature +
Pin 3	Output RH +
Pin 4	Output RH -

3/4 wire with display

Pin 1	Output temperature +
Pin 2	Common ground
Pin 3	Output RH , Dew Point, Absolute Humidity +
Pin 4	Power supply V+

Ordering Example

WM52-BASE-5-DX-H-T3
Relative humidity and temperature sensor WM52, 0-1 V output, with display, relative humidity configuration and 0 to 50°C temperature range

Order Codes

WM33 - Relative Humidity and Temperature Transmitter, Wall Mount, 1pt Calibration with 3% accuracy		
Feature	**Item**	**Description**
Base Model	WM33-BASE	Base unit
Sig Output	WM33-2	4-20 mA (only possible with WM33-X, WM33-T4 or WM33-T5)
	WM33-3	0-10 V
	WM33-4	0-5 V
	WM33-5	0-1 V
Temp	WM33-T1	-20 to +80ºC (-4 to +176ºF)
	WM33-T3	0 to +50ºC (+32 to +122ºF)
	WM33-T4	Pt100: -50 to +200ºC (-58 to +392ºF)
	WM33-T5	Pt1000: -50 to +200ºC (-58 to +392ºF)
	WM33-TX	Other output scaling available on request
	WM33-X	RH signal only. No temperature output

WM52 - Relative Humidity and Temperature Transmitter, Wall Mount, 2pt Calibration with 2% accuracy		
Feature	**Item**	**Description**
Base Model	**WM52-BASE**	Base unit
Sig Output	WM52-2	4-20 mA (only possible with WM52-X, WM52-T4 or WM52-T5)
	WM52-3	0-10 V
	WM52-4	0-5 V
	WM52-**5**	0-1 V
Display	WM52-**DX**	Display version
	WM52-XX	No display
Moist. Sig	WM52-A	Absolute Humidity (g/m3) (only with T1)
	WM52-D	Dew-point (Tdew) (only with T1)
	WM52-**H**	Relative humidity
Temp	WM52-T1	-20 to +80ºC (-4 to +176ºF)
	WM52-**T3**	0 to +50ºC (+32 to +122ºF)
	WM52-T4	Pt100: -50 to +200ºC (-58 to +392ºF) class A
	WM52-T5	Pt1000: -50 to +200ºC (-58 to +392ºF) class A
	WM52-TX	Other output scaling available on request
	WM52-X	RH signal only. No temperature output

WM261

Digital Relative Humidity & Temperature Transmitter, Wall Mount

The WM261 has been developed for high precision measurement of relative humidity and temperature. This transmitter is available with a range of outputs.

Highlights

- Designed for accurate measurement in a controlled environment
- Temperature output scaling configurable on request
- Linearization for a specific isotherm on request

Technical Specifications

Performance

Measurement range (RH)	0–100% RH
Measurement range (T)	-20 to +80°C (-4 to +176°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C (73°F) Temperature	Pt100 1/3DIN direct ±0.2°C (±0.36°F) Current output ±0.3°C (±0.54°F)
Stability – RH sensor	<±1% RH/year
Response time	10 sec typical (for 90% of the step change)

Electrical output/input

Output signal (RH) configurable on request	4–20 mA 0–1, 0–5, 0–10 V
Output signal (T) configurable on request	4–20 mA 3-wire 1/3 DIN Pt100 direct 0–1, 0–5, 0–10 V
Supply voltage	Output 4–20 mA: V + = 12–30 V DC Output 0–10 V: V + = 15–30 V DC Output 0–5 V: V + = 10–30 V DC Output 0–1 V: V + = 8–30 V DC
Load resistance	Output 4–20 mA: Rload < (Uv-9) / 0.02 Output 0–10 V: R > 10 k Ω Output 0–5 V: R > 5 k Ω Output 0–1 V: R > 1 k Ω
Current consumption	2 x 20 mA max

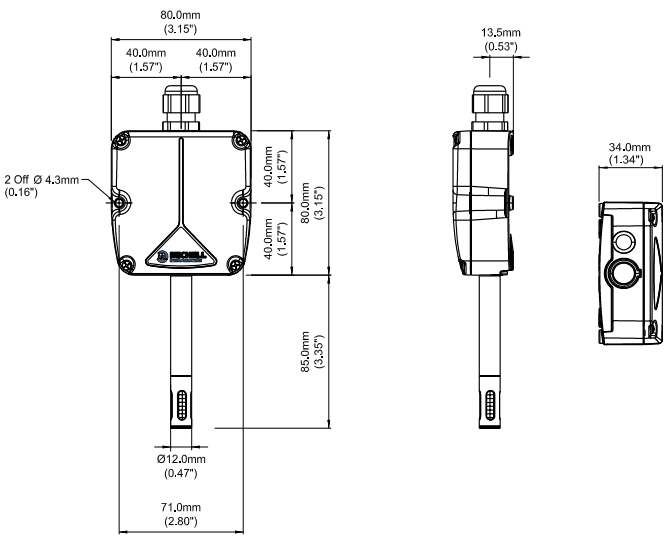
Operating conditions

Operating humidity	
Probe	0–100% RH (Non-condensing)
Housing, Storage	0–98% RH (Non-condensing)
Operating temperature	
Probe	-30 to +85°C (-22 to +185°F)
Housing	-30 to +70°C (-22 to +158°F)
Storage	-40 to +70°C (-40 to +158°F)

Mechanical specification

Ingress protection	IP65 (NEMA 4 level)
Housing material	PPO + POM
Dimensions	
Housing	80 x 80 x 34mm (3.15 x 3.15 x 1.34”)
Probe	L=85mm, ø12mm (L=3.35”, ø0.47”)
Weight	100g (3.53oz)
Electrical connections	Screw terminals

Dimensions



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	**HKC**

WM261

Electrical Connections

Version mA output and Pt100 direct	
Pin 1	Output RH +
Pin 2	Output RH -
Pin 3	
Pin 4	Pt100 direct
Pin 5	

Version mA output for RH and Temperature	
Pin 1	Output temperature +
Pin 2	Output Temperature -
Pin 3	Output RH +
Pin 4	Output RH -
Warning: Temperature channels Pin 1 and Pin 2 must be powered always	

Version V output and Pt100 direct	
Pin 1	Power supply V +
Pin 2	Common ground
Pin 3	Output RH +
Pin 4	Pt100 direct
Pin 5	

Version V output for RH and Temperature	
Pin 1	Power supply V +
Pin 2	Common ground
Pin 3	Output Temperature +
Pin 4	Output RH +

Ordering Example

WM261-BASE-A-1-Z10
Relative humidity transmitter WM261 with 4-20 mA output, Pt100 direct signal, noryl slotted cap and polyester PTFE filter

Order Codes

WM261 - Digital Relative Humidity and Temperature Transmitter, Wall Mount		
Feature	**Item**	**Description**
Base Model	**WM261-BASE**	Base unit
Sig Output	WM261-**A**	4-20 mA output
	WM261-B	0-10 V
	WM261-C	0-5 V
	WM261-D	0-1 V
Temp	WM261-0	No temperature output
	WM261-**1**	Pt100 direct
	WM261-3	-30 to +70ºC (-22 to +158ºF)
	WM261-4	-30 to +20ºC (-22 to +68ºF)
	WM261-5	0 to +50ºC (+32 to +122ºF)
	WM261-TX	Other output scaling available on request
Filter	WM261-**Z10**	Noryl cap slotted & polyester PTFE filter

WM281

Digital Relative Humidity & Temperature Transmitter, Wall Mount

The WM281 relative humidity transmitter includes the interchangeable Hygrosmart module. The interchangeable module lets you recalibrate the transmitter simply by replacing the sensor head with the Hygrosmart module. As a result, maintenance costs are greatly reduced and down-time is minimized.

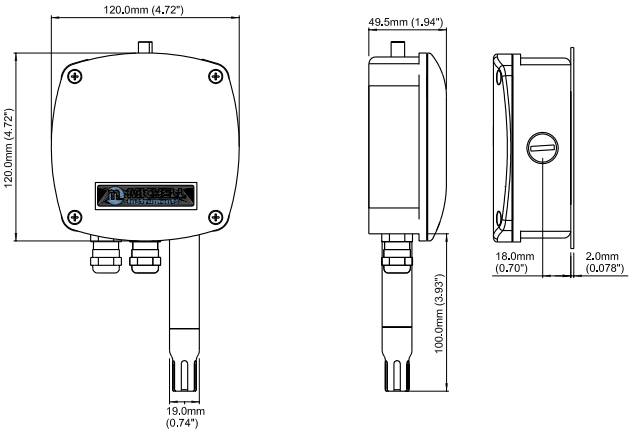
Highlights

- Analog and digital output standard
- Based on the interchangeable Hygrosmart module
- Analog output signals selectable through software
- Metric or US measurement units selectable through software

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-30 to +70°C (-22 to +158°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5-95% RH)
Accuracy at 23°C (73°F) Temperature	±0.4°C (±0.72°F)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal configurable on request	0–1, 0–5, 0–10 V 0–20 mA, 4–20 mA, RS485
Supply voltage	15 - 27 V AC / 18 - 38 V DC
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 +85°C (-22 to +185°F) -30 to +70°C (-22 to +158°F) -40 to +70°C (-40 to +158°F)
Mechanical specification	
Ingress protection	IP67
Material Housing Probe	 Aluminum die casting Delrin
Dimensions Housing Probe	 120 x 120 x 49.5mm (4.72 x 4.72 x 1.94") L=100mm, ø 19mm (L=3.93", ø0.74")
Weight	450g (15.87oz)
Electrical connections	Screw terminals

Dimensions



Accessories and Spare Parts

RS422/485 to PC (RS232) converter	**330185**
USB cable/software for configuration	**F035263**
SS sintered filter	**H2**
SS sintered filter with teflon coating	**J2**
Delrin cap slotted with SS mesh filter	**K7**
Delrin cap slotted with PTFE filter, white	**Z7**
Hygrosmart with Pt100 output (RH = 0-1 V)	**I7-0-00-1**
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	**HKC**

WM281

Electrical Connections

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

Ordering Example

WM281-BASE-A-K7-N030-P070
RH & temp transmitter WM281, 4-20 mA output, delrin cap slotted with stainless steel mesh filter, temp range -30 to +70ºC (-22 to +158°F)

Order Codes

WM281 - Digital Relative Humidity and Temperature Transmitter, Wall Mount		
Feature	**Item**	**Description**
Base Model	**WM281-BASE**	Base unit
Sig Output	WM281-**A**	4-20 mA
	WM281-B	0-10 V
	WM281-C	0-5 V
	WM281-D	0-1 V
	WM281-E	0-20 mA
Filter	WM281-H2	SS sintered filter
	WM281-J2	SS sintered filter with teflon coating
	WM281-**K7**	Delrin cap slotted, with SS mesh filter
	WM281-Z7	Delrin cap slotted, with PTFE filter, white
Temp Low	WM281-0000	0°C (+32°F)
	WM281-N020	-20°C (-4°F)
	WM281-**N030**	-30°C (-22°F)
Temp High	WM281-P020	+20°C (+68°F)
	WM281-P030	+30°C (+86°F))
	WM281-P050	+50°C (+122°F)
	WM281-**P070**	+70°C (+158°F)
	WM281-XXXX	Other output scaling available on request

WM291

Digital Relative Humidity & Temperature Transmitter, Wall Mount

The WM291 relative humidity transmitter includes the interchangeable Hygrosmart module. The interchangeable module lets you recalibrate the transmitter simply by replacing the sensor head with the Hygrosmart module. As a result, maintenance costs are greatly reduced and down-time is minimized.

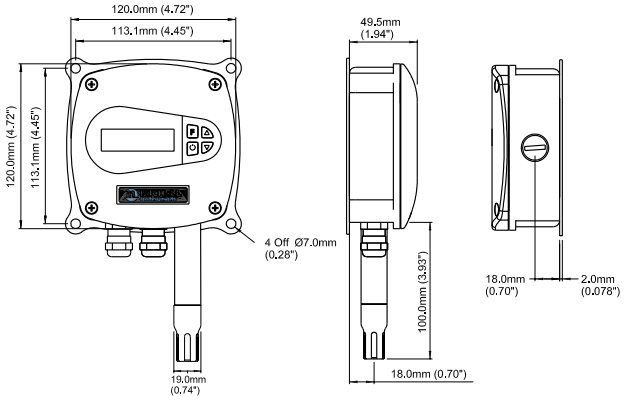
Highlights

- Three outputs
- Analog and digital output standard
- Based on the interchangeable Hygrosmart module
- Analog output signals selectable through software
- Metric or US measurement units selectable through software
- Available with calculated absolute humidity, dew-point, frost point, mixing ratio or specific enthalpy output

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-30 to +70°C (-22 to +158°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5-95% RH)
Accuracy at 23°C (73°F) Temperature	±0.4°C (±0.72°F)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal	0–1, 0–5, 0–10 V 0–20 mA, 4–20 mA, RS485
Supply voltage	15 - 27 V AC / 18 - 38 V DC
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 +85°C (-22 to +185°F) -20 to +70°C (-4 to +158°F) -30 to +70°C (-22 to +158°F)
Mechanical specification	
Ingress protection	IP65 (NEMA 4 level)
Material Housing Probe	 Aluminum die casting Delrin
Dimensions Housing Probe	 120 x 120 x 49.5mm (4.72 x 4.72 x 1.94") L=100mm, ø19mm (L=3.93", ø0.74")
Weight	450g (15.87oz)
Electrical connections	Screw terminals
Display resolution	LCD, 2 lines x 16 characters

Dimensions



Accessories and Spare Parts

RS422/485 to PC (RS232) converter	**330185**
USB cable/software for configuration	**F035263**
SS sintered filter	**H2**
SS sintered filter with teflon coating	**J2**
Delrin cap slotted with SS mesh filter	**K7**
Delrin cap slotted with PTFE filter, white	**Z7**
Hygrosmart with Pt100 output (RH = 0-1 V)	**I7-0-00-1**
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	**HKC**

WM291

Electrical Connections

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

Ordering Example

WM291-BASE-A-0-K7-N030-P070
RH & temp transmitter WM291 for wall-mounting, 4-20 mA output, dp display -40 to +100ºC, Delrin cap slotted, with stainless steel mesh filter, temp range -30 to +70ºC (-22 to +158ºF)

Order Codes

WM291 - Digital Relative Humidity and Temperature Transmitter, Wall Mount		
Feature	**Item**	**Description**
Base Model	**WM291-BASE**	Base unit
Sig Output	WM291-**A**	4-20 mA
	WM291-B	0-10 V
	WM291-C	0-5 V
	WM291-D	0-1 V
	WM291-E	0-20 mA
3rd Output	WM291-**0**	Dew point: -40 to +100ºC
	WM291-1	Mixing ratio: 0-500 gr/Kg
	WM291-2	Absolute Humidity: 0 - 600 g/m3
	WM291-3	Specific enthalpy: -40 to 1500 KJ/Kg
	WM291-4	Frost point: -50 to +10ºC
Filter	WM291-H2	SS sintered filter
	WM291-J2	SS sintered filter with teflon coating
	WM291-**K7**	Delrin cap slotted, with SS mesh filter
	WM291-Z7	Delrin cap slotted, with PTFE filter, white
Temp Low	WM291-0000	0°C (+32°F)
	WM291-N020	-20°C (-4°F)
	WM291-**N030**	-30°C (-22°F)
Temp High	WM291-P020	+20°C (+68°F)
	WM291-P030	+30°C (+86°F))
	WM291-P050	+50°C (+122°F)
	WM291-**P070**	+70°C (+158°F)
	WM291-XXXX	Other output scaling available on request

DT269

Digital Relative Humidity & Temperature Transmitter, Duct Mount

The DT269 transmitter has a I7000 Hygrosmart module. Thanks to this solution, the sensor can be changed on site quickly and simply, providing greatly reduced maintenance costs. The transmitter does not need re-calibration after the sensor is changed.

Highlights

- Designed for accurate measurement in a controlled environment
- Based on the interchangeable Hygrosmart module
- Temperature output scaling configurable on request
- Linearization for a specific isotherm on request

Technical Specifications

Performance

Measurement range (RH)	0–100% RH
Measurement range (T)	-20 to +80°C (-4 to +176°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C (73°F) Temperature	Pt100 1/3 DIN direct ±0.2°C (±0.36°F)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)

Electrical output/input

Output signal (RH) configurable on request	4–20 mA 0–1, 0–5, 0–10 V	
Output signal (T) configurable on request	4–20 mA 3-wire 1/3 DIN Pt100 direct 0–1, 0–5, 0–10 V	
Supply voltage	Output 4–20 mA: Output 0–10 V: Output 0–5 V: Output 0–1 V:	V+ = 12–30 V DC V+ = 15–30 V DC V+ = 10–30 V DC V+ = 8–30 V DC
Load resistance	Output 4–20 mA: Output 0–10 V: Output 0–5 V: Output 0–1 V:	Rload < (Uv-9) / 0.02 R > 10 k Ω R > 5 k Ω R > 1 k Ω
Current consumption	2 x 20 mA max	

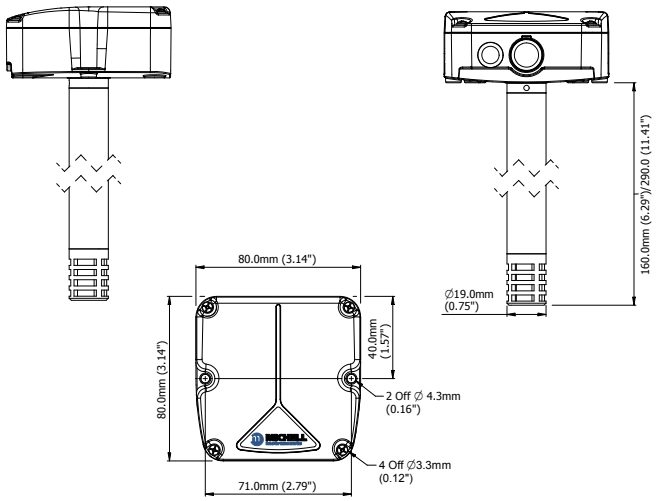
Operating conditions

Operating humidity	
Probe	0–100% RH
Housing, Storage	0–98% RH (non-condensing)
Operating temperature	
Probe	-30 to +85°C (-22 to +185°F)
Housing	-30 to +70°C (-22 to +158°F)
Storage	-40 to +70°C (-40 to +158°F)

Mechanical specification

Ingress protection	IP65 (NEMA 4 level)
Material	PPO + POM
Dimensions	
Housing	80 x 80 x 34.5mm (3.14 x 3.14 x 1.35”)
Probe	L=85/178mm, ø19mm (L=3.35/7.01”, ø0.75”)
Weight	100g (3.53oz)
Electrical connections	Screw terminals

Dimensions



Accessories and Spare Parts

Al mounting flange for ø19mm (0.75”) SS probes	**FLA019**
SS sintered filter	**H4**
ABS cap slotted with PTFE filter, white	**Z2**
Hygrosmart without Pt100 output (RH = 0-1 V)	**I7-0-00-0**
Hygrosmart with Pt100 output (RH = 0-1 V)	**I7-0-00-1**
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	**HKC**

DT269

Electrical Connections

Version mA output and Pt100 direct	
Pin 1	Output RH +
Pin 2	Output RH -
Pin 3	
Pin 4	Pt100 direct
Pin 5	

Version mA output for RH and Temperature	
Pin 1	Output temperature +
Pin 2	Output Temperature -
Pin 3	Output RH +
Pin 4	Output RH -

Warning: Temperature channels Pin 1 and Pin 2 must be powered always

Version V output and Pt100 direct	
Pin 1	Power supply V +
Pin 2	Common ground
Pin 3	Output RH +
Pin 4	
Pin 5	Pt100 direct

Version V output for RH and Temperature	
Pin 1	Power supply V +
Pin 2	Common ground
Pin 3	Output Temperature +
Pin 4	Output RH +

Ordering Example

DT269-BASE-A-4-E0-H4
RH & temp transmitter DT269, 4-20 mA output, -30 to +20ºC (-22 to +68ºF) temp range, 160mm (6.30”) probe length, stainless steel sintered filter

Order Codes

DT269 - Digital Relative Humidity and Temperature Transmitter, Duct Mount		
Feature	**Item**	**Description**
Base Model	**DT269-BASE**	Base unit
Sig Output	DT269-**A**	4-20 mA
	DT269-B	0-5 V
	DT269-C	0-10 V
	DT269-D	0-1 V
Temp	DT269-0	No temperature output
	DT269-1	Pt100 direct
	DT269-3	-30 to +70ºC (-22 to +158ºF)
	DT269-**4**	-30 to +20ºC (-22 to +68ºF)
	DT269-5	0 to +50ºC (+32 to +122ºF)
	DT269-6	-20 to +80ºC (-4 to +176ºF)
	DT269-TX	Other output scaling available on request
Length	DT269-**E0**	160mm (6.29") probe length
	DT269-E1	290mm (11.41") probe length
Filter	DT269-**H4**	SS sintered filter
	DT269-Z2	ABS cap slotted with PTFE filter, white

DT722

Rugged Industrial Relative Humidity and Temperature Transmitter, Duct Mount

The DT722 is a rugged industrial relative humidity and temperature transmitter designed for process applications where accurate, stable measurement and control of humidity and temperature is required.

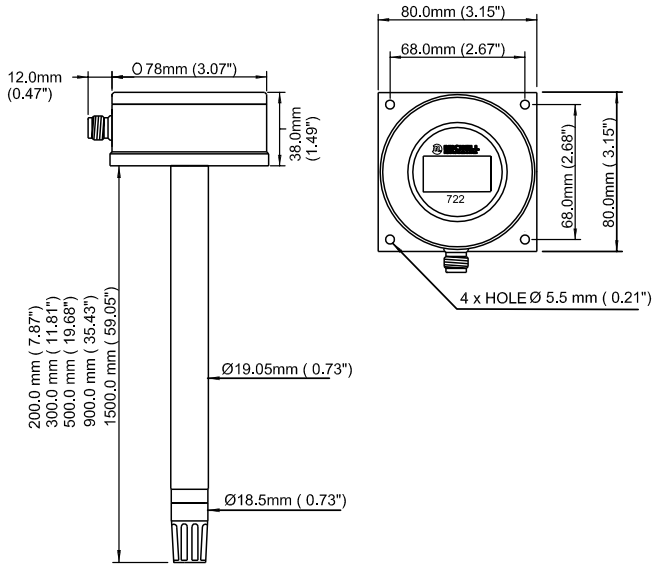
Highlights

- Designed for accurate measurement in a harsh environment
- Can withstand temperatures up to 150°C (300°F)
- Stainless steel housing
- Calculated moisture signal output, optional

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-40 to +150°C (-40 to +302°F)
Accuracy at 25°C (77°F) Humidity	<±2% RH (5-95% RH)
Accuracy at 25°C (77°F) Temperature	±0.2°C (±0.36°F) typical
Stability – RH Sensor	±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal	4–20 mA
Supply voltage	8–35 V DC
Supply voltage influence	±0.01 % RH/V typical
Operating conditions	
Operating humidity Probe, Housing, Storage	10–95% RH (non-condensing)
Operating temperature Probe Housing Storage	 -40 to +150°C (-40 to +302°F) -30 to +70°C (-22 to +158°F) -40 to +75°C (-40 to +167°F)
Mechanical specification	
Ingress protection	IP65 (NEMA 4 level)
Housing material	Stainless steel
Weight	200mm: 800g (7.87”: 28.22oz) 300mm: 900g (11.81”: 31.75oz) 500mm: 1040g (19.69”: 2.29lb)
Electrical connections	4 pin, M12

Dimensions



Accessories and Spare Parts

19mm (0.75") Slotted protection cap black	**A000002**
19mm (0.75") PVDF filter	**A000014**
19mm (0.75") PVDF filter w/ protection cap black	**A000015**
19mm (0.75") Mesh filter w/ protection cap black	**A000021**
19mm (0.75”) Arrow SS sintered filter 5µm / 10µm / 20µm	**A000025/26/27**
19mm (0.75") connector, no cable, w/screw terminal	**A000030**
19mm (0.75”) Connector, with cable (customer spec length)	**A000030XM**
19mm (0.75") connector with 2m (6.5') cable	**A000031**
19mm (0.75") connector with 5m (16') cable	**A000032**
19mm (0.75") Foil filter 2µm w/protection cap black	**A000040**
Oleophobic foil filter 0.7µm w/prot cap black	**A000042**
19mm (0.75") Foil filter 1.5µm w/protection cap black	**A000044**
3/4" NPT SS adj. fitting for SS probes	**A000100**
Al mounting flange for ø19mm (0.75") SS probes (outside ø80mm (3.15"))	**A000110**
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	**HKC**

DT722

Electrical Connections

Connections		
Cable	**Pin**	
White	Pin 1	Output RH +
Brown	Pin 3	Output RH -
Green	Pin 4	Output T +
Yellow	Pin 2	Output T -
Connect RH + with T + by user		

Ordering Example

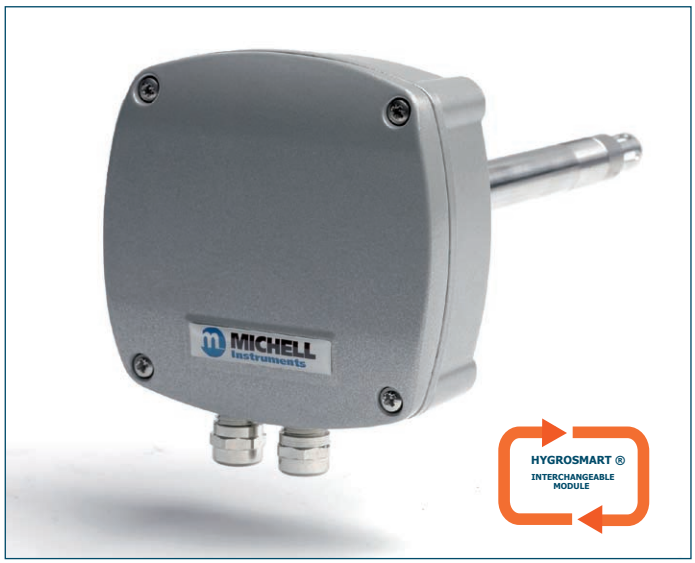
DT722-BASE-SX-A-HT0-03-CA-F02
RH & temp transmitter DT722, no display, Output 1 - calc absolute humidity, Output 2 - temp output 0 to +100ºC (+32 to +212ºF), 300mm (11.81") probe length, no cable, 19mm slotted protection cap black

Order Codes

DT722 - Rugged Industrial Relative Humidity and Temperature Transmitter, Duct Mount		
Feature	**Item**	**Description**
Base Model	**DT722-BASE**	Base unit
Display	DT722-SD	Display
	DT722-**SX**	No display
Moist. Sig	DT722-H	RH
	DT722-D	Calculated dp temp & temp output (Range (Td) -40 to +60ºC (-40 to +140ºF)) (Choose only HT0)
	DT722-**A**	Calc absolute humidity (Abs) & temp output (Range Abs from 0-200g/m3) (Choose only HT0)
	DT722-W	Calculated wetbulb temp & temp output (Range (Tw) -40 to +60ºC (-40 to +140ºF)) (Choose only HT0)
Temp	DT722-**HT0**	0 to +100ºC (+32 to +212ºF)
	DT722-**HTS**	-40 to +150ºC (-40 to +302ºF)
	DT722-TX	Other output scaling available on request
Length	DT722-02	200mm (7.87") probe length
	DT722-**03**	300mm (11.81") probe length
	DT722-05	500mm (19.69") probe length
	DT722-09	900mm (35.43") probe length
	DT722-15	1500mm (50.06") probe length
Cable	DT722-**CA**	No cable
	DT722-CB	19mm (0.75") connector, no cable, w/screw terminal
	DT722-CC	19mm (0.75") connector with 2m (6.5') cable
	DT722-CD	19mm (0.75") connector with 5m (16') cable
Filter	DT722-**F02**	19mm (0.75") slotted protection cap black
	DT722-F15	19mm (0.75") PVDF filter with protection cap black
	DT722-F21	19mm (0.75") Mesh filter with protection cap, black
	DT722-F25	19mm (0.75") Arrow SS sintered filter 5µm
	DT722-F26	19mm (0.75") Arrow SS sintered filter 10µm
	DT722-F27	19mm (0.75") Arrow SS sintered filter 20µm
	DT722-F40	19mm (0.75") Foil filter 2µm with protection cap black
	DT722-F42	Oleophobic foil filter 0.7µm with protection cap black
	DT722-F44	19mm (0.75") Foil filter 1.5µm w/protection cap black

DT282

Digital Relative Humidity and Temperature Transmitter - Duct Mount



The DT282 relative humidity transmitter includes the interchangeable Hygrosmart module. The interchangeable module lets you recalibrate the transmitter simply by replacing the sensor head with the Hygrosmart module. As a result, maintenance costs are greatly reduced and down-time is minimized.

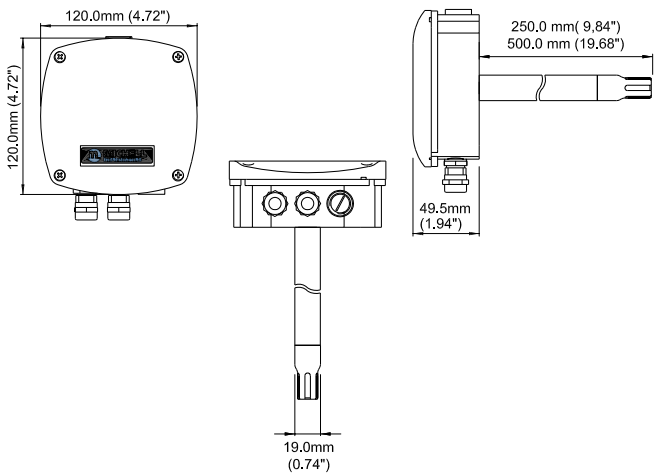
Highlights

- Analog and digital output standard
- Based on the interchangeable Hygrosmart module
- Analog output signals selectable through software
- Metric or US measurement units selectable through software

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-30 to +70°C (-22 to +158°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C (73°F) Temperature	±0.4°C (±0.72°F)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal	0–1, 0–5, 0–10 V 0–20 mA, 4–20 mA, RS485
Supply voltage	15 - 27 V AC / 18 - 38 V DC
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 +85°C (-22 to +185°F) -30 to +70°C (-22 to +158°F) -40 to +70°C (-40 to +158°F)
Mechanical specification	
Ingress protection	IP67
Material Housing Probe	 Aluminum die casting Stainless steel AISI 316
Dimensions Housing Probe	 120 x 120 x 49.5mm (4.72 x 4.72 x 1.94") L=250/500mm ø19mm (L=9.84/19.68" ø0.74")
Weight	450g (15.87oz)
Electrical connections	Screw terminals

Dimensions



Accessories and Spare Parts

RS422/485 to PC (RS232) converter	**330185**
USB cable/software for configuration	**F035263**
Al mounting flange for ø19mm (0.75") SS probes	**FLA019**
SS sintered filter	**H2**
SS sintered filter with teflon coating	**J2**
AISI 316 cap slotted with SS mesh filter	**K6**
SS cap slotted with PTFE filter	**Z6**
Hygrosmart with Pt100 output (RH = 0-1 V)	**I7-0-00-1**
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	**HKC**

DT282

Electrical Connections

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

Ordering Example

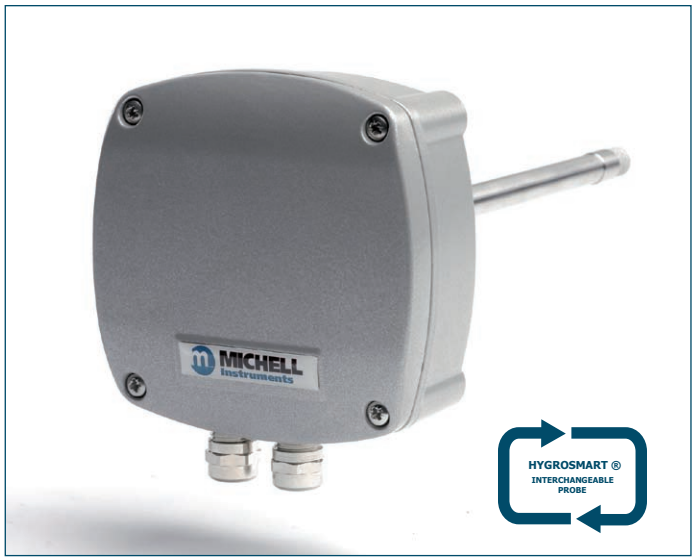
DT282-BASE-A-01-K6-N030-P070
RH & temp transmitter DT282, 4-20 mA output, stainless steel probe 250mm (9.84”), AISI 316 cap slotted with stainless steel mesh filter, temp range -30 to +70ºC (-22 to +158ºF)

Order Codes

DT282 - Digital Relative Humidity and Temperature Transmitter, Duct Mount		
Feature	**Item**	**Description**
Base Model	**DT282-BASE**	Base unit
Sig Output	DT282-**A**	4-20 mA
	DT282-B	0-10 V
	DT282-C	0-5 V
	DT282-D	0-1 V
	DT282-E	0-20 mA
Length	DT282-**01**	250mm (9.84")
	DT282-02	500mm (19.68")
Filter	DT282-H2	SS sintered filter
	DT282-J2	SS sintered filter with teflon coating
	DT282-**K6**	AISI 316 cap slotted with SS mesh filter
	DT282-Z6	SS cap slotted with PTFE filter
Temp Low	DT282-0000	0°C (+32°F)
	DT282-N020	-20°C (-4°F)
	DT282-**N030**	-30°C (-22°F)
Temp High	DT282-P020	+20°C (+68°F)
	DT282-P030	+30°C (+86°F))
	DT282-P050	+50°C (+122°F)
	DT282-**P070**	+70°C (+158°F)
	DT282-XXXX	Other output scaling available on request

DT284

Digital Relative Humidity and Temperature Transmitter - Duct Mount



The DT284 relative humidity transmitter uses the Hygrosmart module, integrated in the interchangeable probe. This device can be used in high-temperature applications due to the remote placing of the measurement element and its small overall size.

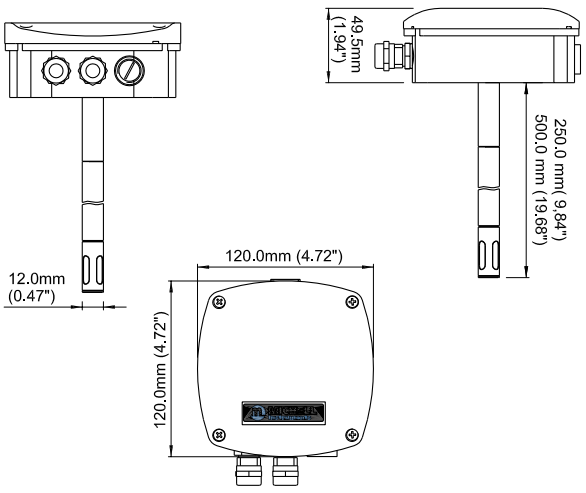
Highlights

- 12mm (0.47”) probe diameter
- Analog and digital output standard
- Interchangeable probe
- Analog output signals selectable through software
- Metric or US measurement units selectable through software
- Can withstand temperatures up to 140°C (284°F)

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-30 to +140°C (-22 to +284°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C (73°F) Temperature	±0.4°C (±0.72°F)
Stability – RH Sensor	±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal	0–1, 0–5, 0–10 V 0–20 mA, 4–20 mA, RS485
Supply voltage	15 - 27 V AC / 18 - 38 V DC
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 +140°C (-22 to +284°F) -30 to +70°C (-22 to +158°F) -40 to +70°C (-40 to +158°F)
Mechanical specification	
Ingress protection	IP67
Material Housing Probe	 Aluminum die casting Stainless steel
Dimensions Housing Probe	 120 x 120 x 49.5mm (4.72 x 4.72 x 1.94”) L=250/500mm ø12mm (L=9.84/19.68” ø0.47”)
Weight	450g (15.87oz)
Electrical connections	Screw terminals

Dimensions



Accessories and Spare Parts

SS probe 250mm (9.84"), SS cover & mesh filter	**USTE003**
SS probe 500mm (19.69"), SS cover & mesh filter	**USTE010**
SS probe 250mm (9.84"), SS cover & sinter filter	**USTE011**
SS probe 500mm (19.69"), SS cover & sinter filter	**USTE012**
PEEK probe 250mm (9.84") & cover, SS mesh filter	**USTE013**
PEEK probe 500mm (19.69") & cover, SS mesh filter	**USTE014**
RS422/485 to PC (RS232) converter	**330185**
USB cable/software for configuration	**F035263**
Al mounting flange for ø12mm (0.47") SS probes	**FLA012**
SS sintered filter	**H3**
SS sintered filter with teflon coating	**J3**
SS mesh filter	**K8**
PEEK protection cap with SS mesh filter	**K9**
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	**HKC**

DT284

Electrical Connections

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

Ordering Example

DT284-BASE-A-11-N030-P140
RH & temp transmitter DT284, 4-20 mA output, stainless steel probe 250mm (9.84”), stainless steel cover and sintered filter, temp range -30 to +140ºC (-22 to +284ºF)

Order Codes

DT284 - Digital Relative Humidity and Temperature Transmitter, Duct Mount		
Feature	**Item**	**Description**
Base Model	**DT284-BASE**	Base unit
Sig Output	DT284-**A**	4-20 mA
	DT284-B	0-10 V
	DT284-C	0-5 V
	DT284-D	0-1 V
	DT284-E	0-20 mA
Probe Type	DT284-3	SS probe 250mm (9.84"), SS cover & mesh filter
	DT284-10	SS probe 500mm (19.69"), SS cover & mesh filter
	DT284-**11**	SS probe 250mm (9.84"), SS cover & sinter filter
	DT284-12	SS probe 500mm (19.69"), SS cover & sinter filter
	DT284-13	PEEK probe 250mm (9.84") & cover, SS mesh filter
	DT284-14	PEEK probe 500mm (19.69") & cover, SS mesh filter
Temp Low	DT284-0000	0°C (+32°F)
	DT284-N020	-20°C (-4°F)
	DT284-**N030**	-30°C (-22°F)
Temp High	DT284-P020	+20°C (+68°F)
	DT284-P030	+30°C (+86°F))
	DT284-P050	+50°C (+122°F)
	DT284-P070	+70°C (+158°F)
	DT284-P100	+100°C (+212°F)
	DT284-**P140**	+140°C (+284°F)
	DT284-XXXX	Other output scaling available on request

WR283

Digital Relative Humidity and Temperature Transmitter - Remote Probe for High Temperatures

The WR283 relative humidity sensor uses the Hygrosmart module, integrated in the interchangeable probe and cable. This device can be used in high-temperature applications thanks to the remote placing of the measurement element and its small overall size. The interchangeable probe allows for simple re-calibration and lower maintenance costs.

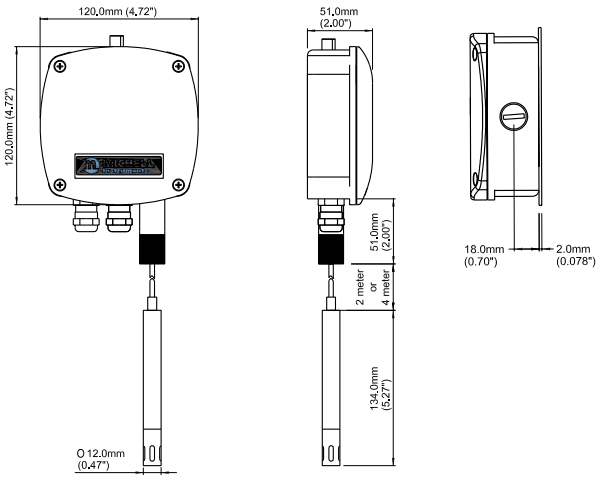
Highlights

- Analog and digital output standard
- Interchangeable probe
- Analog output signals selectable through software
- Metric or US measurement units selectable through software
- Can withstand temperatures up to 200°C (392°F)

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-30 to +200°C (-22 to +392°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C (73°F) Temperature	±0.4°C (±0.72°F)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal	0–1, 0–5, 0–10 V 0–20 mA, 4–20 mA, RS485
Supply voltage	15 - 27 V AC / 18 - 38 V DC
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	IP67
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	Screw terminals

Dimensions



Accessories and Spare Parts

RS422/485 to PC (RS232) converter	**330185**
USB cable/software for configuration	**F035263**
Al mounting flange for ø12mm (0.47") SS probes	**FLA012**
SS sintered filter	**H3**
SS sintered filter with teflon coating	**J3**
SS mesh filter	**K8**
PEEK protection cap with SS mesh filter	**K9**
SS probe, cover & mesh filter, 2m (6.56') cable	**USTE002**
SS probe, cover & mesh filter, 4m (13.12') cable	**USTE005**
SS probe, cover & sinter filter, 2m (6.56') cable	**USTE006**
SS probe, cover & sinter filter, 4m (13.12') cable	**USTE007**
PEEK probe, cover, SS mesh filter, 2m (6.56') cable	**USTE008**
PEEK probe, cover, SS mesh filter, 4m (13.12') cable	**USTE009**
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	**HKC**

WR283

Electrical Connections

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

Ordering Example

WR283-BASE-A-7-N030-P180
RH & temp transmitter WR283 with 4-20 mA output, stainless steel probe with 4m (13.12') cable and stainless steel sintered filter, temp range -30 to +180ºC (-22 to +356ºF)

Order Codes

WR283 - Digital Relative Humidity and Temperature Transmitter, Remote Probe for High Temperatures		
Feature	**Item**	**Description**
Base Model	**WR283-BASE**	Base unit
Sig Output	WR283-**A**	4-20 mA
	WR283-B	0-10 V
	WR283-C	0-5 V
	WR283-D	0-1 V
	WR283-E	0-20 mA
Probe Type	WR283-2	SS probe, cover & mesh filter, 2m (6.56') cable
	WR283-5	SS probe, cover & mesh filter, 4m (13.12') cable
	WR283-6	SS probe, cover & sinter filter, 2m (6.56') cable
	WR283-**7**	SS probe, cover & sinter filter, 4m (13.12') cable
	WR283-8	PEEK probe, cover, SS mesh filter, 2m (6.56') cable
	WR283-9	PEEK probe, cover, SS mesh filter, 4m (13.12') cable
Temp Low	WR283-0000	0°C (+32°F)
	WR283-N020	-20°C (-4°F)
	WR283-**N030**	-30°C (-22°F)
Temp High	WR283-P020	+20°C (+68°F)
	WR283-P030	+30°C (+86°F))
	WR283-P050	+50°C (+122°F)
	WR283-P070	+70°C (+158°F)
	WR283-P100	+100°C (+212°F)
	WR283-P140	+140°C (+284°F)
	WR283-P150	+150°C (+302°F)
	WR283-**P180**	+180°C (+356°F)
	WR283-P200	+200°C (+392°F)
	WR283-XXXX	Other output scaling available on request

WR285

Digital Relative Humidity Transmitter - Remote Probe for Pressurized Applications up to 30 bar (3Mpa)

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 re-calibration and lower maintenance costs.

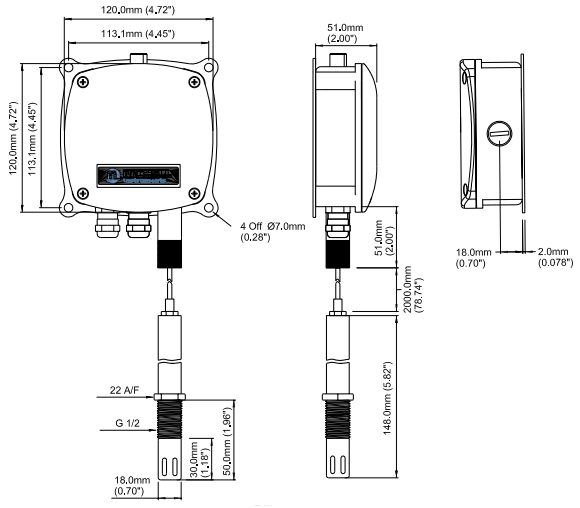
Highlights

- Up to 30 bar (400 PSI) pressure
- Analog and digital output standard
- Interchangeable probe
- Analog output signals selectable through software
- Metric or US measurement units selectable through software
- Can withstand temperatures up to 120°C (248°F)

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Accuracy at 25°C (77°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	0–1, 0–5, 0–10 V 0–20 mA, 4–20 mA, RS485
Supply voltage	15 - 27 V AC / 18 - 38 V DC
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 +120°C (-22 to +248°F) -30 to +70°C (-22 to +158°F) -40 to +70°C (-40 to +158°F)
Mechanical specification	
Ingress protection	IP67
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=148mm, ø18mm (L=5.82", ø0.70")
Weight	450g (15.87oz)
Electrical connections	Screw terminals

Dimensions



Accessories and Spare Parts

RS422/485 to PC (RS232) converter	**330185**
USB cable/software for configuration	**F035263**
SS interchangeable probe with 2m (6.56') cable	**USTE015**
SS cap slotted with mesh filter	**K1**
SS cap slotted with PTFE filter	**Z1**
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	**HKC**

WR285

Electrical Connections

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

Ordering Example

WR285-BASE-A-15-K1
Relative humidity transmitter WR285, 4-20 mA output, stainless steel probe with 2m (6.56') cable, stainless steel cap with mesh filter

Order Codes

WR285: Digital Relative Humidity Transmitter - Remote Probe for Pressurized Applications up to 30 bar (3Mpa)		
Feature	**Item**	**Description**
Base Model	**WR285-BASE**	Base unit
Sig Output	WR285-**A**	4-20 mA
	WR285-B	0-10 V
	WR285-C	0-5 V
	WR285-D	0-1 V
	WR285-E	0-20 mA
Probe Type	WR285-**15**	SS interchangeable probe with 2m (6.56') cable
Filter	WR285-**K1**	SS cap slotted with mesh filter
	WR285-Z1	SS cap slotted with PTFE filter

Precision Manufacturing

WR293

Digital Relative Humidity and Temperature Transmitter - Remote Probe for High Temperatures

The WR293 relative humidity transmitter 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 re-calibration and lower maintenance costs.

Highlights

- Three outputs
- Analog and digital output standard
- Interchangeable probe
- Analog output signals selectable through software
- Metric or US measurement units selectable through software
- Available with calculated absolute humidity, dew-point, frost point, mixing ratio or specific enthalpy output
- Can withstand temperatures up to 200°C (392°F)

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-30 to +200°C (-22 to +392°F)
Accuracy at 23°C (73°F) Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C (73°F) Temperature	±0.4°C (±0.72°F)
Stability – RH Sensor	<±1% RH/year
Response time – RH Sensor	<10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal	0–1, 0–5, 0–10 V 0–20 mA, 4–20 mA, RS485
Supply voltage	15 - 27 V AC / 18 - 38 V DC
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 (NEMA 4 level)
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	Screw terminals
Display resolution	LCD, 2 lines x 16 characters