

HUMIPOINT 05/10/20

Humidity / Temperature Hand-Helds

Hand-held measurement of relevant climatic data is becoming more and more important.

Thermo-Hygrometers of the HUMIPOINT series set new standards because of the combination of the latest technology and design.

Excellent readability of the very large and illuminated display, the simple thumbwheel operation and the robust case allow the use in tough industrial environments.

The HUMIPOINT measures relative humidity [% RH] and temperature [°C or °F] and calculates dew point temperature [°C or °F], absolute humidity [g/m³] and mixing ratio [g/kg or gr/lb].

HUMIPOINT10/20 Thermo-Hygrometers are also available in a practical carrying case. The set contains a HUMIPOINT, a matching humidity calibration jar, 5 ampoules with calibration fluid (for 80% RH) and an E+E factory certificate.



Product Comparison HUMIPOINT Series

Functions	Comment	HUMIPOINT 05	HUMIPOINT 10	HUMIPOINT 20
measurement of relative humidity and temperature		✓	✓	✓
calculation of	- dew point temperature [°C or °F]	✓	✓	✓
	- absolute humidity [g/m ³]	✓	✓	✓
	- mixing ratio [g/kg or gr/lb]	✓	✓	✓
HOLD / MIN / MAX / AVG readout		✓	✓	✓
SI- / US- units selectable		✓	✓	✓
easy thumb-wheel operation		✓	✓	✓
1 point humidity and temperature calibration		✓	✓	✓
2 point humidity calibration			✓	✓
illuminated display			✓	✓
auto power off			✓	✓
real time clock			✓	✓
probe fixed		✓	✓	
remote probe 1.5m (5ft)				✓
carrying case (HUMIPOINT with a matching humidity calibration jar, 5 ampoules with calibration fluid (for 80% RH) and an E+E factory certificate.	optional		✓	✓
protection cover	optional	✓		

Technical Data

Measuring values

		HUMIPOINT 05	HUMIPOINT 10/20
Sensor type	relative humidity	HC101	HC101
	temperature	NTC	NTC
Measuring range	relative humidity	5...95% RH	0...95% RH
	temperature	-20...50°C (-4...122°F)	-20...50°C (-4...122°F)
	dew point at 20°C (68°F)	-15...19°C (5...66°F)	-20...19°C (-4...66°F)
	mixing ratio at 20°C (68°F)	1.18...14g/kg (8.26...98gr/lb)	0.78...14g/kg (5.46...98gr/lb)
Accuracy	relative humidity	±3% RH	±2% RH
	temperature	±0.4°C at 0...40°C, otherwise ±0.7°C (±0.7°F at 32...104°F, otherwise ±1.3°F)	±0.3°C at 0...40°C, otherwise ±0.5°C (±0.54°F at 32...104°F, otherwise ±0.9°F)
	dew point at 20°C (68°F)	± (4.46...0.64°C); ± (8.03...1.15°F)	± (4.33...0.45°C); ± (7.79...0.81°F)
	mixing ratio at 20°C (68°F)	± (0.44...0.57g/kg); ± (3.08...3.99gr/lb)	± (0.29...0.4g/kg); ± (2.03...2.8gr/lb)
Resolution	relative humidity	0.1% RH	0.1% RH
	temperature	0.1°C (0.18°F)	0.1°C (0.18°F)

General

Supply voltage	9V battery	4x 1.5V AA alkali-manganese battery
Battery lifetime	typ. > 150h	typ. > 500h
Working temperature range	0...50°C (32...122°F)	housing: 0...50°C (32...122°F) sensing probe: -20...50°C (-4...122°F)
CE compatibility according	EN61000-6-2 EN50147-3	EN50081-2 EN50082-2 EN61000-4-2 EN61000-4-3 EN55011
Housing / protection class	ABS / IP40	ABS / IP40
Dimensions (HxWxD)	with filter cap: 175x48x25mm (6.9x1.9x1") without filter cap: 140x48x25mm (5.5x1.9x1")	145x85x37mm (5.7x3.3x1.5") HUMIPOINT 20: cable-length: approx. 1.5m (4.9ft)
Weight	200g (0.5 lbs)	400g (1 lbs)
Display	LCD, 45x32 mm (1.8x1.3")	LCD, 90x50 mm (3.5x1.9"), illuminated

Order information

MODEL	ACCESSORIES
HUMIPOINT 05 (HUMIPOINT 05)	Metal grid filter for average pollutions (HA010106)
HUMIPOINT 10 (HUMIPOINT 10)	Stainless steel sintered filter for strong pollutions (HA010103)
HUMIPOINT 20 (HUMIPOINT 20)	Protection cover for HUMIPOINT 05 (HA040903)
Carrying case HUMIPOINT 10 (HUMIPOINT 10-Set)	
Carrying case HUMIPOINT 20 (HUMIPOINT 20-Set)	