EKTRONIK

HUMIPORT

Humidity / Temperature Hand-Helds

Hand-held measurement of relevant climatic data is becoming more and more important. Thermo-Hygrometers of the HUMIPORT series set new standards because of the combination of the latest technology and design.

Excellent readability of the large and illuminated display, the simple thumbwheel operation and the robust case allow the use in tough industrial environments. Latest technology and the well proven E+E humidity sensor guarantee highest accuracy and long term stable measurements.

The HUMIPORT 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].

HUMIPORT10/20 Thermo-Hygrometers are available in a practical carrying case. The set contains a HUMIPORT incl. an E+E factory certificate and a humidity calibration device with 5 ampoules calibration fluid (80% RH).

Thermo - hygrometer and laser pyrometer of the HUMIPORT 05 IR series provide 3 operation modes:

TH-mode:		Temperature / humidity measurement In this mode the hand-held offers you all functions of the HUMIPORT 05 series.
IR-mode, infrared:	-	Contact-free surface temperature measurement with measurement position marking
DP-mode:		Dew point temperature / surface temperature measurement Dew point detection on walls

Dew point detection on walls







Product Comparison HUMIPORT Series_

v2.2

Functions	05	HUMIPORT 05 IR	HUMIPORT 10 ✓	HUMIPORT 20 ✓	Comment
measurement: - relative humidity and temperature - surface temperature					
calculation: - dew point temperature [°C or °F]	√	√	√	√	
- absolute humidity [g/m³] - mixing ratio [g/kg or gr/lb]			\checkmark	\checkmark	
dew point detection on walls		✓	-		
alarm function		√			
HOLD / MIN / MAX / AVG readout	✓	✓	✓	✓	
SI- / US- units selectable	✓	✓	✓	✓	
easy thumb-wheel operation	✓	✓	✓	✓	
1 point humidity and temperature calibration	\checkmark	✓	\checkmark	\checkmark	
2 point humidity calibration			√	\checkmark	
illuminated display			✓	✓	
auto power off	✓	✓	✓	✓	
real time clock			√	✓	
probe fixed	✓	✓	✓		
remote probe 1.5m (5ft)				\checkmark	
HUMIPORT 10/20 Set (carrying case incl. HUMIPORT			√	✓	optional
humidity calibration device, 5 ampoules with calibration					
fluid (for 80% RH) and an E+E factory certificate)					
protection cover	✓	✓			optional



Technical Data

		HUMIPORT 05	HUMIPORT 05 IR	HUMIPORT 10/20	
uring value					
Sensor type	relative humidity	HC101	HC101	HC101	
	temperature	NTC	NTC	NTC	
	surface temperature		Thermopile		
Measuring	relative humidity	595% RH	595% RH	098% RH	
range	temperature	-2050°C (-4122°F)	-2050°C (-4122°F)	-2050°C (-4122°F)	
	dew point at 20°C (68°F)	-1519°C (566°F)		-2019°C (-466°F)	
	mixing ratio at 20°C (68°F)	1.1814g/kg (8.2698gr/lb)		0.7814g/kg (5.4698gr/lb	
	surface temperature		-2060°C (-4140°F)		
Accuracy	relative humidity	±2% RH	±2% RH	±2% RH	
·	temperature	±0.4°C (040°C) (±0.7°F at 32104°F)	±0.4°C (040°C) (±0.7°F at 32104°F)	±0.3°C (040°C) (±0.54°F at 32104°F ₎	
		±0.7°C (-2050°C) (±1.3°F at -4122°F)	±0.7°C (-2050°C) (±1.3°F at -4122°F)	±0.5°C (-2050°C) (±0.9°F at -4122°F)	
	dew point at 20°C (68°F)	± (4.460.64°C)		± (4.330.45°C)	
		± (8.031.15°F)		± (7.790.81°F)	
	mixing ratio at 20°C (68°F)	± (0.440.57g/kg)		± (0.290.4g/kg)	
		± (3.083.99gr/lb)		± (2.032.8gr/lb)	
	surface temperature		±2°C (±3.6°F)		
			$(T_{obj} > 0^{\circ}C (32^{\circ}F);$		
			T _{amb} > 10°C (50°F))		
Resolution	relative humidity	0.1% RH 0.1% RH		0.1% RH	
	temperature	0.1°C (0.18°F)	0.1°C (0.18°F)	0.1°C (0.18°F)	
<u> </u>	surface temperature		0.1°C (0.18°F)		
ral					
Supply volta		9V battery	9V battery	4x 1.5V AA battery	
Battery lifetime		typ. > 150h	max. 200h - TH mode 10h - IR/DP mode	typ. > 500h	
Working temperature range		housing: 050°C (32122°F)	housing: 050°C (32122°F)	housing: 050°C (32122°F)	
		probe: -2050°C (-4122°F)	probe: -2050°C (-4122°F)	probe: -2050°C (-4122°F)	
Storage temperature range		-3060°C (-22140°F)		-3060°C (-22140°F)	
Display		LCD, 45x32mm (1.8x1.3")	LCD, 45x32mm (1.8x1.3")	LCD, 90x50mm (3.5x1.9") illuminated	
Measuring o			~ 8:1		
CE compatibility according		EN61000-6-2	EN61000-6-2	EN50081-2 EN50082-2	
CE		EN50147-3	EN50147-3	EN61000-4-2 EN61000- EN55011	
Housing / pr	otection class	ABS / IP40	ABS / IP40	ABS / IP40	
Dimensions	(HxWxD)	housing: 140 x 48 x 25mm (5.5.x1.9x1")	housing: 140 x 48 x 25mm (5.5.x1.9x1")	housing: 145 x 85 x 37mm (5.7x3.3x1.5")	
				HUMIPORT 20: cable length: approx. 1.5m (4.9	
Weight		ca. 200g (0.5 lbs)	ca. 200g (0.5 lbs)	ca. 400g (1 lbs)	

1) <u>Distance : Measured surface (D:M)</u> For accurate measurements, the target must be at least twice as big as the measured surface (red spot of the laser beam). The determined temperature is the average temperature of the measured surface.



Order information

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

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