

VOLTCRAFT - TOP PERFORMANCE IN EVERY WAY

For more than 40 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft's success.

TH-600 DEWPOINT METER FOR COMPRESSED AIR SYSTEMS

CE

Item no: 3451428

Dewpoint meter for pressurized systems carrying gases. Measures dew point temperature, relative humidity, and ambient temperature.

FEATURES

Dew point, relative humidity, H₂O (ppmv/ppmw) measurements //
Temperature range for measurements: -50 to +30 °C //
System pressure: max. 20 bar //
Data recording and data transferral to PC as CSV files

TECHNICAL DATA

Suitable gases	Air, SF ₆ , N ₂ Other non-toxic inert non-flammable gases
Input	5 V/DC, 1 A via Micro USB
Rechargeable battery	Li-ion 3.7 V, 3000 mAh, 11.1 Wh
Battery life	approx. 6 hours
Interface	Micro USB
Thread	G1/2"
Thread length	1.2 cm
Memory	35,000 records (35 files x 1000 records) stored as CSV files
System pressure	max. 20 bar
Display	5.84 cm (2.3") LCD
Operating temperature	-10 °C to +60 °C



Operating humidity	<90% RH (non-condensing)
Storage temperature	-10 °C to +60 °C
Storage humidity	<80% RH (non-condensing)
Dimensions (main unit)	76 x 192 x 41 mm (W x H x D)
Dimensions (probe)	38 x 297 x 33 mm (W x H x D)
Weight (main unit)	approx. 610 g (with battery)
Weight (probe)	approx. 315 g

Measurements

F = Function; RA = Range; RR = Resolution; A = Accuracy at 20 °C

F	RA	RR	A
Relative Humidity	0 to 100 %RH	0.01 %RH	±(0.025%RH+17.5% reading) at <5%RH ±(1%RH+5% reading) at >5%RH ±(2%RH+3% reading) at >15%RH
Dew Point*	-50 to 30 °C (-58 to 86°F)	0.01 °C/°F	±2.5 °C at -50 to -40 °C ±2 °C at -40 to +20 °C
H ₂ O PPM	40 to 20000 ppm	1ppm	±(7.3ppm+8.3% reading)
Temperature	-10 to +60 °C (+14 to +140 °F)	0.01 °C/°F	±0.3 °C/0.54 °F at -10 to +50 °C (+14 to +122 °C)

F	RA
Temperature T	-10.00 to +60.00 °C (+14.00 to +140.00 °F)
Dewpoint/Frost Point Temperature T _{d/F}	-50.00 to +30.00 °C (-58.00 to +86.00 °F)
Dewpoint Temperature T _d	-50.00 to +30.00 °C (-58.00 to +86.00 °F)
Dewpoint/Frost Point in the Atmospheric Pressure T _{d/F} (°C atm/°F atm)	-50.00 to +20.00 °C (-58.00 to +68.00 °F)
Dewpoint in the Atmospheric Pressure T _d (°C atm/°F atm)	-50.00 to +20.00 °C (-58.00 to +68.00 °F)
Relative Humidity	0 to 100.00 %RH
Humid Air/Dry Air H ₂ O ppm _v / ppm _w	40 to 20000 ppm
Absolute Humidity a (g/m ³)	0.5 to 100.0 g/m ³ (0.2 to 40.0 gr/ft ³)
Mixing Ratio r (g/kg)	0.2 to 100g/kg (2 to 700gr/lbs)
*Accuracy at environment temperature +16 to +25°C	
Measurement environment:	
Temperature:	
-10 to +60 °C (+14 to +140 °F); Pressure: 0 to 20 bar (Absolute).	
Response Time:	
Flow rate 0.2 m/s, 1 bar pressure, +20°C (+68°F) 63%[90%]	
0 to -40°C Td (32 to -40°F Td) 20s[120s]	
-40 to 0°C Td (-40 to 32°F Td) 10s[20s]	

Data according to EU regulation 2019/1782

Manufacturer	Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau
Commercial registration number	HRB 3896

Model identifier	FJ-SW11A0501000E
Input voltage	100 - 240 V/AC
Input AC frequency	50/60 Hz
Output voltage	5.0 V/DC
Output current	1.0 A
Output power	5.0 W
Average active efficiency	75.0 %
Efficiency at low load (10 %)	65.4 %
No-load power consumption	0.06 W

CONTENTS

Main unit // Li-ion battery // Power adapter // Dewpoint probe // Micro USB cable // Carrying case // Operating instructions

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