Measuring
on the Go

Luftfeuchte | TFF   00:16

23.99   °C

Temperatur

17.19   %

Rel Feuchte

979.3   hPa

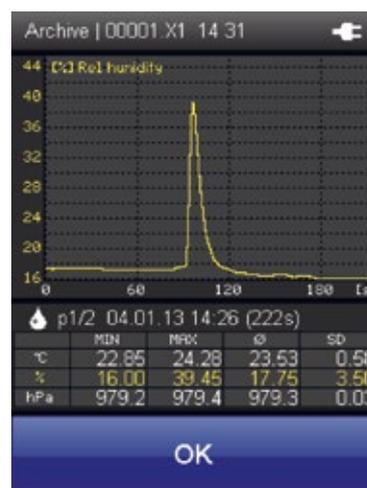Abs Luftdruck   Restzeit   02:59:55

MADE IN GERMANY

- TFT colour display, legible in sunlight
- Capacitive touch operation
- Sampling rate 1s
- Data recording of up to 3 channels in parallel
- Graphical analysis with standard deviatzion resolution
- Integrated Flash memory for 200 recording blocks with maximum length of 3 hours
- USB port for data transfer to SmartGraph3 (included in delivery)
- Various languages selectable
- Measuring temperature, humidity, airflow via external digital sensors
- Integrated air pressure measurement
- Numerous calculated measurements
- Online firmware update

Premium Segment XA1000

XA1000

The most precice and flexible all-rounder instrument for professional applications-easy to handle and robust. Allows various intelligent sensors to be connected with automatic recognition, saves measuring campaignes, allows all climate data to be calculated and archieved on a computer for further evaluation by SmartGraph3 software.

Hand-held Measuring Device XA1000 "All-in-ONE"			Order No.
"All-rounder" in the measurement technology segment. A universal measuring device for professionals with the inclusion of exchangeable SDI Sensors. Highly precise measurements of temperature and relative humidity. Integrated air pressure sensor, online/offline data recording. Equipment test certificate, can be calibrated.			**5900.00**
Technical data	Dimensions	170 x 62 x 34 mm	
	Weight	ca. 205g	
Storage conditions	Permitted ambient temperature	-20...60°C	
	Permitted rel. humidity	<90% RH non-condensing	
Operating conditions	Permitted rel. humidity	<90% RH (20g/m³) non-condensing	
	Permitted altitude above sea level	4000m	
Power supply	Power supply	4 Alkaline LR6 AA 1.5V / USB 5V	
	Active power consumption	Approx. 400mW	
	Battery life passive	Approx. 1 year	
	Battery life active	Min. 24 hours	
	Sensor power supply	5.5V ± 10% DC, max. 200mA	
Data storage	Integrated data storage	Up to 200 gauges taking approx. 1 mill. values	
Interface	USB	Cable and SmartGraph3 software included	
Resolution	Definition of measured values	2 decimal places	
Display	Control	Touch screen, capacitive	
	Technology	TFT, resolution 240x320, 65k colours, very good contrast due to Piezoresistive technology	
	Surface, toughened glass	Degree of hardness: 7, scratch-resistant	
Integrated air pressure sensor	Measuring range (full accuracy)	800...1,100mbar	
	Accuracy at 25°C,1013.25mbar	0.5mbar	
	Long-term stability	typ. - 1mbar/year	
	Measurement resolution	0.024mbar	
	Measuring principle	Piezoresistive	
Calculated measurement categories for external temperature/humidity sensors	Mathematical: MIN/MAX/AVG/HOLD		
	Temperature (°C/°F)		
	Rel. humidity (% RH)		
	Rel. humidity of ice (% RH)		
	Water vapour density (absolute humidity) g/m³		
	Dew point temperature °C/°F		
	Frost point temperature °C/°F		
	Mixing ratio at saturation (100%) g/kg		
	Volume fraction of water vapour /mass fraction of water vapour (%)		
	Wet-bulb temperature °C/°F		
	Ice-bulb temperature °C/°F		
	Specific Enthalpy (mass of air) kJ/kg		
	Saturation vapour pressure above ice/water (hPa)		
	Vapour particle pressure (hPa)		
	Air density kg/m³		
Calculated measurement categories for external airflow sensors	Operating airflow volume - various units: (m³/s) (m³/h) (l/min)		
	Standard airflow volume: DIN 1343 (°C, 1013.25hPa), ISO 2533 (15°C, 1013.25hPa), DIN 1945 (20°C, 1013.25hPa)		
	Various units: (m³/s), (m³/min), (m³/h), (l/min)		
Compatibility	Sensor/probe: all SDI/digital sensors (temperature, humidity, SDI airflow, air pressure integrated)		
Accessories	Extension and/or connecting cable for digital sensor, 2m		**8120.KAB2**
	Extension and/or connecting cable for digital sensor, 10m		**8120.KAB10**

Luftfeuchte | TFF 14 21
Temperatur 22.77 °C
Rel Feuchte 17.44 %
Abs Luftdruck 979.3 hPa

Archive | 00001 X1 14 31
[%] Rel humidity
p1/2 04.01.13 14:26 (222s)

	MIN	MAX	Ø	SD
°C	22.85	24.28	23.53	0.58
%	16.00	39.45	17.75	3.50
hPa	979.2	979.4	979.3	0.03

OK

Compatible sensors for XA1000		Page
Temperature/humidity	Digital TFF20	24
	Allround SDI	24
	5 mm diameter SDI	25
	High temperature SDI	25
	High-precision Temperature/Humidity Sensor	26
Airflow/temperature	SDI (0…2m/s)	27
	SDI (0…20m/s)	27
CO₂	CO_2 Sensor	26

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