Robust technology in a sophisticated design.

Precision and reliabilty in one – made by

NOT IN GERMAN

- TFT colour display, legible in sunlight

- Capacitive touch operation
- Sampling rate 1s

Measuring

- 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

Lutteuchte | TFF

20

Temperatur

RelFauchte

Abs Lutteruck

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23.99

17.19

979.3

183

- (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



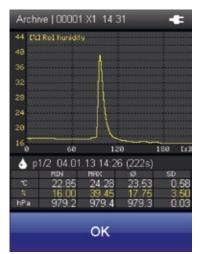
The most precice and flexible all-rounder instrument for professional applications-easy to handle and robust. Allows various intelligent sensors to be connected with automatic recognition, saves measuring campaignes, allows all climate data to be calculated and archieved on a computer for further evaluation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

Hand-held Measuring Device XA1000 "All-in-ONE"

"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

		certificate, can de calidrated.	
Technical data	Dimensions	170x62x34mm	
	Weight	ca. 205g	
Storage conditions	Permitted ambient temperature	-2060°C	
	Permitted rel. humidity	<90% RH non-condensing	
Operating	Permitted rel. humidity	<90% RH (20g/m³) non-condensing	
conditions	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	
ata storage	Integrated data storage	Up to 200 gauges taking approx. 1 mill. values	
nterface	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	
tegrated air ressure sensor	Measuring range (full accuracy)	8001,100mbar	
	Accuracy at 25°C,1013.25mbar	0.5mbar	
	Long-term stability	typ 1mbar/year	
	Measurement resolution	0.024mbar	
	Measuring principle	Piezoresistive	
alculated measure-	Mathematical: MIN/MAX/AVG/HOLD		
ent categories for	Temperature (°C/°F)		
ternal tempe-	Rel. humidity (% RH)		
rature/humidity sensors	Rel. humidity of ice (% RH)		
	Water vapour density (absolute humidity) g/m ³		
	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/°		
	Specific Enthalpy (mass of		
	Saturation vapour pressur		
	Vapour particle pressure	(hPa)	
	Air density kg/m ³		
Calculated measu-	Operating airflow volume - various units: (m ³ /s) (m ³ /h) (l/min)		
rement categories		DIN 1343 (°C, 1013.25hPa), ISO 2533 (15°C,	
or external airflow sensors	1013.25hPa), DIN 1945 (2		
	Various units: (m ³ /s), (m ³ /		
Compatibility	Sensor/probe: all SDI/digital sensors (temperature, humidity, SDI airflow, air pressure integrated)		
Accessories		ting cable for digital sensor, 2m ting cable for digital sensor, 10m	





Compatible sensors for XA1000			
Tempera-	Digital TFF20	24	
ture/ humidity	Allround SDI	24	
	5 mm diameter SDI	25	
	High temperature SDI	25	
	High-precision Tempera- ture/Humidity Sensor	26	
Airflow/ temperature	SDI (02m/s)	27	
	SDI (020m/s)	27	
CO2	CO ₂ Sensor	26	