

Robust technology
in a sophisticated
design.

*Precision and reliability
in one – made by
professionals for
professionals*

Measuring on the Go

- 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 deviation 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

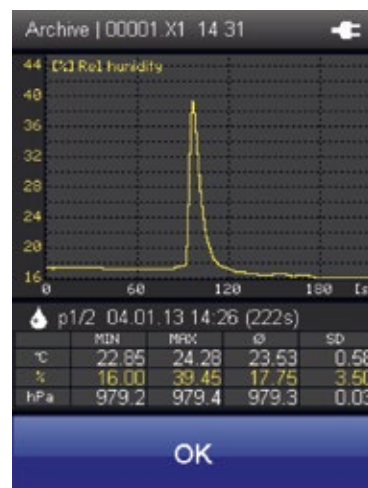
MADE IN GERMANY

Premium Segment XA1000



The most precise 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 campaigns, allows all climate data to be calculated and archived 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	
Integrated air pressure sensor	Surface, toughened glass	Degree of hardness: 7, scratch-resistant	
	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	



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
CO ₂	CO ₂ Sensor	26