

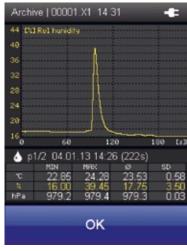
## **Premium Segment XA1000**



The best precision and greatest flexibility. The measurement all-rounder for professional applications – easy to handle and robust. Allows various intelligent sensors to be connected, sensors to be automatically recognised, saves measuring campaigns, allows all climate data to be calculated, and data to be archived on a computer and easily evaluated by means of SmartGraph3.

Hand-held Measuring	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
Technical data	Dimensions	170x62x34mm	
	Weight	ca. 205g	
Storage conditions	Permitted ambient temperature	-20+60°C	
	Permitted rel. humidity	<90%r.h. non-condensing	
Operating conditions	Permitted rel. humidity	<90%r.h. (20g/m³) non-condensing	
	Permitted altitude above sea level	4,000m	
Power supply	Power supply	4 Alkaline LR6 AA/NiMH 1.51.2V/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 in delivery	
Representation	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)	8001,100mbar	
	Accuracy at 25°C,1013,25mb	0.5mbar	
	Long-term stability	type - 1mbar/year	
	Measurement resolution	0.024mbar	
	Measuring principle	Piezoresistive	
Calculated measure-	Mathematical: MIN/MAX/AVG/HOLD		
ment categories for	Temperature (°C/°F)		
external tempe- rature/humidity sensors	Rel. humidity (%r.h)		
	Rel. humidity of ice (%r.h)		
	Water vapour density (absolute humidity) g/m <sup>3</sup>		
	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/		
	Ice-bulb temperature °C/°		
	Specific Enthalpy (mass of		
	Saturation vapour pressure above ice/water (hPa)		
	Vapour particle pressure (hPa)		
	Air density kg/m³		
Calculated measu- rement 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/h		
Compatibility	Sensor/probe: all SDI/digital sensors (temperature, humidity, SDI airflow, air pressure integrated		





Compatible sensors for XA1000		
Tempera-	digital TFF20	18
ture/	Allround SDI	18
humidity	4 mm diameter SDI	19
	High temperature SDI	19
	Sintered stainless steel filter	20
Current/	SDI (02m/s)	21
temperature	SDI (020m/s)	21