

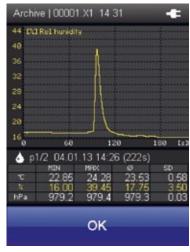
## **Premium Segment XA1000**

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 Measur <u>in</u>	g Device XA1000 "All-in-C	NE"	Order No.
for professionals witi measurements of ter	h the inclusion of exchang mperature and relative hu	segment. A universal measuring device geable SDI Sensors. Highly precise midity. Integrated air pressure sensor, certificate, can be calibrated.	5900.00
Technical data	Dimensions	170x62x34mm	
	Weight	ca. 205g	
Storage conditions	Permitted ambient temperature	-2060°C	
Operating conditions	Permitted rel. humidity	<90%RH non-condensing	
	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	
nterface	USB	Cable and SmartGraph3 software included	
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,1013.25mbar	0.5mbar	
	Long-term stability	typ 1mbar/year	
	Measurement resolution	0.024mbar	
	Measuring principle	Piezoresistive	
Calculated measure-	Mathematical: MIN/MAX/	AVG/HOLD	
ment categories for external tempe- rature/humidity sensors	Temperature (°C/°F)		
	Rel. humidity (%RH)		
	Rel. humidity of ice (%RH)		
	Water vapour density (absolute humidity) g/m <sup>3</sup>		
	Dew point temperature °C/°F		
	Frost point temperature °C/°F  Mixing ratio at acturation (1000/) a/l/a		
	Mixing ratio at saturation (100%) g/kg  Volume fraction of water vapour /mass fraction of water vapour (%)		
	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 measu- rement categories for external airflow	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)		
sensors	Various units: (m³/s), (m³/h), (l/min)		
Compatibility	Sensor/probe: all SDI/digital sensors (temperature, humidity, SDI airflow, air pressure integrated)		
Accessories	Connecting cable for external sensors, 2m Connecting cable for external sensors, 10m		
	<u> </u>		8120.KAE





Compatible sensors for XA1000		
Tempera-	digital TFF20	20
ture/	Allround SDI	20
humidity	4 mm diameter SDI	21
	High temperature SDI	21
	Sintered stainless steel filter	22
Airflow/	SDI (02m/s)	23
temperature	SDI (020m/s)	23