



# Abbeon Cal, Inc.

Industrial Plastic Working Equipment & Precision Instruments

**Abbeon Cal, Inc.,**

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Genuine glass  
surface with high  
resolution colour  
display

X(per) P(rofessional) Series

# XP200/XP201

- TFT LCD, anti-glare colour display
- Capacitive touch screen
- Sampling rate 1s
- Data recording simultaneously on up to 3 channels
- Graphical analysis including standard deviation
- Integrated flash memory with space for up to 200 data blocks, or up to three hours continuous recording
- USB port for data transfer to Smartgraph 3 (included in delivery)
- Multilingual interface
- Numerous dimensions calculated
- Online firmware update



# Hand-held measuring device XP200/ XP201 for measuring temperature and humidity



X-pert range for humidity and temperature measurements in climate and environmental technology.

Hand-held measuring device XP200		Order No.
<b>Temperature and humidity measuring device compatible with various intelligent sensors.</b>		<b>5820.00</b>
<b>Technical data</b>	Dimensions	170x62x34 mm
	Weight	Approx. 205g
<b>Storage conditions</b>	Permitted ambient temperature	-20...60°C
	Permitted rel. humidity	<90% RH non-condensing
<b>Operating conditions</b>	Permitted rel. humidity	<90% RH (20g/m <sup>3</sup> ) non-condensing
	Permitted altitude above sea level	4000m
	<b>Power supply</b>	Power supply
	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
<b>Data storage</b>	Integrated data storage	Up to 200 data/approx. 1 Mio measured values
<b>Interface</b>	USB	Cable and SmartGraph3 software included
<b>Resolution</b>	Definition of measured values	2 decimal places
<b>Display</b>	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
<b>Integrated air pressure sensor</b>	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
<b>Calculated measurement categories for external temperature/humidity sensors</b>	Mathematical:	MIN/MAX/AVG/HOLD
	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 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)	
	Water vapour particle pressure (hPa)	
	Air density kg/m <sup>3</sup>	
<b>Accessories</b>	Extension and/or connecting cable for digital sensor, 2m	<b>8120.KAB2</b>
	Extension and/or connecting cable for digital sensor, 10m	<b>8120.KAB10</b>



**XP201 Order No 5810.20**  
**High Quality Watertight case and High-precision Temperature/Humidity Sensor**  
**Order No 8130.TFF included in delivery.**

Compatible sensors for XP200		Page
<b>Temperature/humidity</b>	Digital TFF20	24
	High-precision Temperature/Humidity Sensor	26
	Allround SDI	24
	5 mm diameter SDI	25
	High temperature SDI	25
<b>CO<sub>2</sub></b>	CO <sub>2</sub> Sensor	26