

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 wooden case and High-precision Temperature/Humidity Sensor Order No.8130.TFF from page 26 are included in delivery.*

Compatible sensors for XP200		Page
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