

## **Data logger** **W232/W325/W528**

- for wind measurements
- for meteorological measurements
- for hydrological measurements

We supply reliable data loggers configured as to your specific needs!



### **Characteristics**

- 5 digital and 10 analog inputs
- All analog sensors 0...1 V, 0...5V, 4...20mA, 2 x Pt 100
- Low power consumption
- Strong protective housing
- Measurement interval 1s...24h  
Storage interval 1s...24h
- Storage capacity 2 und 4 Mbyte
- Data download, settings and open drain by serial port, both hardware and GSM connection possible.
- No data loss in case of power failure
- Data logger resets automatically after power failure
- Conversion of data to various units directly by data logger settings

### **Software**

The operation software was developed by us for easy and user-friendly handling of our data loggers.

With its easy-to-handle menu our software offers a multitude of user-specific settings and programming.

<b>Technical data sheet</b>	
<b>General:</b>	<b>Data logger W528</b>
• Input channels	4 x wind speed, 2 x wind direction, 8 x analog inputs, 1 x rain gauge, 2 x Pt 100
<b>Housing:</b>	plastic ABS, waterproof IP65, connectors IP 67
• protection	200 x 120 x 95 mm
• dimension	Approx. 1.200 g
• weight	Binder series 680/723
• connectors	
<b>Power supply:</b>	3 Alkaline batteries 1,5 V size D (Mono)
• internal	5V to 20 V battery charger or solar panel
• external	Approx. 8 $\mu$ A
• Standby	8 - 11 mA, max. 28 mA
• Measurement	
<b>Battery life</b>	approx. 5 months
<b>Memory</b>	Ring memory, EEPROM memory (data storage without buffer battery), multimedia board optional
<b>Memory capacity</b>	2 Mbyte
<b>Operating range:</b>	
temperature	
• Operating	-30° C .... +60° C
• Storage temperature	-40° C .... +80° C
<b>Clock</b>	Real-time clock, buffered
• Accuracy	-10°C ... +50°C < 1 minute/month
<b>Data output:</b>	1 x 16 LCD real time data on display, extended temperature range
<b>Connection to PC</b>	Serial R-S 232, 115.000 kBaud, 8 bits, No parity, 1 stop bit
<b>Impulse inputs:</b>	2... 1700 Hz Resolution 0.1 Hz.
• TTL	0.2...75 m/s Resolution 0. 1 m/s
• Measuring range	
<b>Analog inputs:</b>	0...5 V voltage output (temperature, humidity etc.)
• Resolution	12 Bit <math>\mu</math>55 V
• Input impedance	> 1 M Ohm
<b>Wind Direction:</b>	0...5 V for wind vanes with potentiometer output
• Analog Inputs	2, 5 V < 20 ppm.
• Reference-voltage	0....360 degrees
• Measuring range	12 Bit < 1 mV
• Resolution	
<b>Open-Drain:</b>	Open collector output 12 V 0.1 A (open-drain for the control of GSM modem)
<b>Measuring interval:</b>	1s... 24h
<b>Storage interval:</b>	1s... 24h
<b>Communication Software:</b>	<b>WindCom</b> for the download of stored data and for configuration of the data logger settings
<b>Data Analysis Software:</b>	<b>WindAnalysis</b>