

# Data Collection Systems

## OPUS208 - 8 Channel Datalogger, Extendable, Modular Technology

8 channel datalogger/transmitter with the following characteristics:

- Universal connection options for all types of industrial sensor
- High accuracy
- CAN-Bus networking with up to 30 additional modules
- Extendable with OPUS 200/300 modules

Reliable measurement systems pick up signals close to the sensor, to eliminate the effects of interference. The datalogger has a digital interface for further data processing. The extendability and modularity guarantee the highest reliability and future upgrading to meet additional requirements.

User-configurable visualization software is part of the scope of supply.

Battery, mains or solar operation.

Other input signals for OPUS208, as per OPUS200/300

Technical Data	Order No.
<b>OPUS 208 datalogger</b>	<b>8162.00</b>
Dimensions	240x80x35mm
Sampling interval	1/10/30/60s - adjustable separately for each channel
Alarm output	4 x open collector outputs (20mA/12V each up to a total of not more than 50mA in total)
Design	Painted sheet steel
Data memory	60,000 measurements per channel
Display	2 lines, 16 characters - readable down to -20°C
Weight	approx. 800g
Storage temperature	-30...70°C
Interface	RS232 serial interface with CTS and RTS 19,200 Baud
Protection Class	IP42 - with covers
Power supply	9...15VDC - typically 12V - with rechargeable batteries
Recording interval	1/10/30/60s - 1...1440min - adjustable separately for each channel
Recording options	Average-Min.-Max. - in any desired combination
Connection system	COMBICON Phoenix, Gold contact
Current consumption - in operation	<60mA
Current consumption - standby	<1.5mA
Included in the scope of supply	SmartControl software
Permissible operating temperature	-30...60°C
Permissible relative humidity	0...95% RH (non-condensing)
<b>Frequency (channels 1-6 only)</b>	
Measurement range	10 ... 1000 Hz
Accuracy	±0.2%, Ri: 100k
Resolution	0.1 %
<b>Impulses (channels 1-6 only)</b>	
Measurement range	0 ... 65000 impulses/recording interval
Accuracy	±2 impulses/recording interval
Resolution	1 impulse
<b>Voltage</b>	
Measurement range	0 ... 10 V
Accuracy	Available with 8160.U10 external voltage divider only
Resolution	2 mV
Resolution	0.2 °C



Networking capability  
 Extendable with OPUS200/OPUS208  
 Highly flexible system accepts almost any type of sensor  
 SmartControl software included