

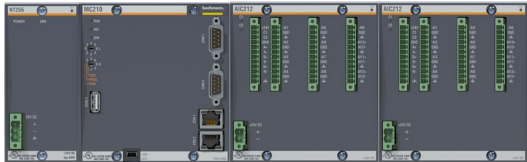
# Condition Monitoring



## **Ω-Guard® Portable 18 (OGP18)** 18 channel Vibration Monitoring System

Built from the same modules that power Bachmann's proven Ω-Guard® CMS, OGP18 provides 18 channels of IEPE vibration monitoring for those jobs where using a hand-held system is just not tenable.

Many wind farm owners restrict access to the nacelle during operations, or maybe your visit is on a calm day. OGP18 provides enough channels for a comprehensive survey of your turbine (or other equipment), and can be left to collect data for a period that will ensure you have seen a range of operating conditions.



Specific firmware runs so that you can use your PC's browser to check that you have set up the system correctly, then set the recording going and leave it for the required period. Data will be collected whenever the machine is within the defined speed range.

Once the data has been collected, the browser software shows whether the recording was successful. Data can be uploaded to a WebLog server for analysis using the Bachmann WebLog software (also compatible with WebLog Expert®).

For longer campaigns the network port can be used to connect the device to the internet to allow periodic remote access.

Specific features:

- Robust design
- 18 channels of IEPE enabled vibration channels
- 1 speed signal inputs
- 3 analog inputs for process parameters
- Browser-based controller software
- Remote access
- Set of sensors available for use with the OGP18

Item	Item no.
OmegaGuard portable 18	00028326-00
OG portable 18 sensors equipment	00028377-00

# Condition Monitoring

<b>Ω-Guard® Portable 18</b>	
<b>Hardware</b>	
MC210	CPU module ATOM E680 (1.6GHz); 1GB DRAM, 512kB nvRAM; 64MB file-flash; 2x Eth100/1000; 1x RS232; 1x RS232/422/485; 1x USB2.0; 1x USB2.0 Device; CFast slot
2 x AIC212	Analog measuring module for Condition Monitoring; 9x Input IEPE; 3x Input ±10V; 18bit; 0.1%; >95dB dynamic range; 20µs sample time; 1x INC HTL; 36kHz; A,A/B/N; 128MB measured data storage
Power Supply	100 to 240 V AC
Carrying Case	Robust, watertight carry-case with foam inserts
Network connection	TCP/IP v4 via LAN
LED Status lights	Run / Init / Error (G/A/R)
Ground Terminal	Via additional earth clip
<b>Channels</b>	
1 Speed	Two-fold rising edge detection incremental counter +24 V, with short circuit protection
18 IEPE	AC coupled ±6V, ±10 V suitable for use with IEPE Piezo-electric accelerometers
3 Analogue Input	±10 V input
Failure Detection	Short circuit, open circuit
<b>Physical</b>	
Size of unit	440 x 175 x 100 mm
Temperature Range	-25 to +55 °C
Humidity Range	5 to 95 % without condensation
Seal Rating	IP65

<b>Order Codes Ω-Guard® Portable 18</b>		
Item	Item no.	Description
OmegaGuard portable 18	00028326-00	Single device
OG portable 18 sensors equipment	00028377-00	2 x Peli cases with accessories
<b>Accessories</b>		
Sensors	14 x BAM100; 4 x BAM500	
Speed	Optical speed signal, fixing clamps and brackets, incl. 1 roll of reflective tape	
Cables	22 cables: 5 m length; 18 with sensor connections, 1 with speed connection, 3 with terminations for use with analogue signals	