



CMSportable – rental system 18 channel vibration monitoring system for temporary measurements

Based on the robust Bachmann M200 modules that are used with the proven Bachmann CMSadvanced and CMScompact, the CMSportable has 18 channels for IEPE sensors and it enables temporary vibration measurement in mobile deployment.

Bachmann makes complete CMSportable systems available, including sensors and connecting cables, for flexible measurement campaigns and for operators of industrial plants or wind turbines, for example, enables temporary, multi-channel data logging for evaluation of the state of mechanical components in drivetrains. In this regard, data can always be logged if provided process parameters are within prescribed ranges.

With an internet browser the configuration of the CMSportable can be flexibly adjusted, measurements can be started, data can be recorded for a desired period of time, and checked for completeness.

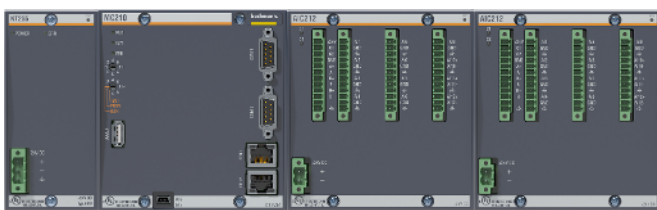
As with all permanently installed Bachmann-CMS products, after the measurement campaign the measurement data is stored on a WebLog Server and analyzed with the WebLog Expert® expert software.

For longer deployments it is possible to reach the CMSportable via the network interface for periodic internet remote access.

This means that for plants equipped with a permanently installed CMS, CMSportable permits flexible measurement campaigns and unlike simple, point-based offline vibration measurements, it offers a selective consideration of suitable operating conditions.

Features

- 18 channels of IEPE enabled vibration channels
- 1 speed signal inputs
- 3 analog inputs for process parameters
- Browser-based engineering software
- Remote access
- Compatible set of sensors



Part type designation	Part number
CMSportable rental fee	00021035-00
CMSportable signal evaluation	00020347-00

CMSportable

Hardware	
MC210	CPU module ATOM E680 (1.6 GHz); 1 GB DRAM, 512 kB nvRAM; 64 MB file-flash; 2x Eth100/1000; 1x RS232; 1x RS232/422/485; 1x USB 2.0; 1x USB 2.0 Device; CFast slot
2x AIC212	Analog measuring module for Condition Monitoring; 9x Input IEPE; 3x Input ± 10 V; 18 bit; 0.1 %; > 95 dB dynamic range; 20 μ s sample time; 1x INC HTL; 36 kHz; A,A/B/N; 128 MB measured data storage
Power supply	100 V AC to 240 V AC
Carrying case	Robust, watertight carry-case with foam inserts
Network connection	TCP/IP v4 via LAN
LED status indication	Run / Init / Error (G/A/R)
Grounding	Via additional ground terminal
Channels	
1 Speed	Two-fold rising edge detection incremental encoder +24 V, with short circuit protection
18 IEPE	AC coupled ± 6 V, ± 10 V suitable for use with IEPE Piezo-electric accelerometers
3 analog inputs	± 10 V input
Error detection	Short circuit, open circuit
Physical	
Size of unit	440 mm \times 175 mm \times 100 mm
Temperature range	-25 °C to +55 °C
Humidity	5 % to 95 % noncondensing
Protection class	IP65

Order data

Part type designation	Part number	Description
CMSportable rental fee	00021035-00	Rental fee per month
CMSportable signal evaluation	00020347-00	Analysis of the measured values acquired with CMSportable

Accessory rental as needed

Part type designation	Description
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 analog signals