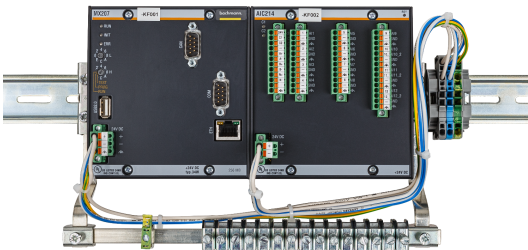




▼ Stand-alone solution



▼ Top Box solution

Part Type Designation	Part Number
CMScompact 100-240 V AC Standard Type: EU	00037838-00
CMScompact 100-240 V AC Standard Type: US	00038006-00
CMScompact 24 V DC Standard	00037834-00

## CMScompact Condition Monitoring System

The condition monitoring system CMScompact is an intelligent monitoring solution without mechanical moving components such as hard disks or fans, which is robust for use under harsh ambient conditions.

The hardware and software architecture is based on Bachmann's hardware and software architecture, using a configuration optimised to reduce costs, without compromising on quality. Through high-quality hardware, Bachmann's systems in the field exceed 99.9% availability.

CMScompact contains an MX207 processor and an AIC214 vibration module, which offers a range of sample rates with corresponding filters. Bachmann software routines ensure regular data acquisition under defined operating conditions and transfer to the server infrastructure at Bachmann or the customer's premises. The measurement data is then processed centrally via the proven WebLog Interface and stored on a WebLog Server.

Data analysis by Bachmann's DNV certified monitoring team, or by your own in-house specialists, is provided through the WebLog Expert® monitoring software. The monitoring results are available on mobile or portable devices through the WebLog Portal.

The system includes a set of four BAM100 and two BAM500 piezoelectric accelerometers, which have a proven track record, as well as a speed signal and all the required installation accessories.

A cabinet mounted stand-alone solution with 230 V power supply and a Top Box solution, requiring a 24 V DC supply, are both available.

### Features

- Complete package including cables and sensors
- Data upload to server
- Proven technology and high quality piezo-electric (IEPE) sensors
- Wide operating temperature range
- Robust to environmental influences
- Watchdog self-monitoring
- Web-based WebLog Portal

Optional Software and Services which complement CMScompact:

- Monitoring or support from Bachmann's DNV certified monitoring team
- Client-based WebLog Expert® software for in-depth monitoring and diagnostics

## Common features

AIC214	
Analog measurement channels	12 IEPE enabled (3 alternatively $\pm 10$ V) + 2 counters
Sampling interval	100 Hz to 51.2 kHz (synchronous)
Error detection	Cable break, interference pulse, phase error, bias voltage

CPU Unit MX207	
Processor	x86 / AMD LX, 266 MHz Single Core
Connections	Ethernet, USB 2.0, RS232/422/485
Memory	256 MB DRAM, 64 Mbyte File-Flash, 512 kB NVRAM
Operating voltage	24 V / 5 V short-circuit-proof
Power consumption	18 W 24 V DC

Mechanical conditions and environmental conditions	
Mechanical class 3M4	EN 60721-3-3
Vibrations sinusoidal	EN 60068-2-6 Test level 2 Hz to 9 Hz $\pm 3.5$ mm, 9 Hz to 500 Hz $\pm 10$ m/s
Shock and continuous shock	EN 60068-2-27 Test level 15 g over 11 ms, all axes
Air pressure	EN 60068-2-13 Test level 106 kPa to 58 kPa (0 m to 4500 m)
Temperature range	-30 °C to +60 °C between 5% and 95% humidity (no condensation)
Insulation resistance	EN 61557-2
Interference immunity	EN 61000-6-2
Galvanic isolation	AC voltage EN 60255-5 Test level 500 V <sub>eff</sub> , 50 Hz, 1 min
Electrical tests	ESD EN 61000-4 -2, -3, -4, -5, -6, -8, -9 and -11

## Stand-alone version (100 V AC to 240 V AC)

Switch cabinet	
Mounting	Wall mounting, fixing feet mounting, mounting with magnets
Degree of protection	IP65
Power supply	Multi-voltage power supply 100 V to 240 V / 50 Hz to 60 Hz / 50 W
Dimensions	380 mm × 380 mm × 210 mm
Operating temperature	-25 °C to +55 °C between 5% and 95% humidity (no condensation)

## Order Data – Accessories

Part Type Designation	Description
Sensors	4 BAM100 Acceleration Sensors
	2 BAM500 Acceleration Sensors
	6 mounting plate for acceleration sensor
Sensor	1 inductive sensor
Cables	5 cable for sensor 12W-UNG 10m 3POL BK AIX
	2 cable for sensor 12W-UNG 15m 3POL BK AIX