

**UK - DECLARATION OF CONFORMITY**  
UK - KONFORMITÄTSERKLÄRUNG

<b>Name and Address of Manufacturer</b> Name und Anschrift des Herstellers	Bachmann Monitoring GmbH Fritz-Bolland-Str. 7 07407 Rudolstadt Germany	
<b>This declaration of conformity is made under the sole responsibility of the manufacturer.</b> Diese Konformitätserklärung erfolgt in der alleinigen Verantwortung des Herstellers.		
<b>Product identification</b> Produktbezeichnung	<b>Condition Monitoring System</b> Condition Monitoring System	
<b>EMC-Directive:</b> EMV-Richtlinie: <b>2016/1091</b>	<b>The Electromagnetic Compatibility Regulations 2016, No. 1091</b> Die Vorschriften zur elektromagnetischen Verträglichkeit 2016, Nr. 1091	
<b>RoHS-Directive:</b> RoHS-Richtlinie: <b>2012/3032</b>	<b>The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, No. 3032</b> Die Vorschriften zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten 2012, Nr. 3032	
<b>Low Voltage-Directive:</b> Niederspannungs-Richtlinie: <b>2016/1101</b>	<b>Electrical Equipment (Safety) Regulations 2016, No 1101</b> Vorschriften für elektrische Geräte (Sicherheit) 2016, Nr. 1101	
<b>The mentioned manufacturer hereby declares that these products are conform to the fundamental health- and safety requirements stipulated in the directives concerning compatibility issued by the UK Statutory Instruments to ensure conformance to legal regulations in the UK of 2016/1091, 2012/3032 and 2016/1101 including the Amendments (2014/1771, 2019/492, 2021/422, 2021/1395, 2022/622, 2023/658).</b> Der genannte Hersteller erklärt hiermit, dass diese Produkte den wesentlichen Gesundheits- und Sicherheitsanforderungen entsprechen, die in der Richtlinie der Gesetzlichen Instrumente des Vereinigten Königreichs zur Angleichung der Rechtsvorschriften im Vereinigten Königreich über die Verträglichkeit nach 2016/1091, 2016/1101 und über die Beschränkung der Verwendung gefährlicher Stoffe in Elektro- und Elektronikgeräten nach 2012/3032, inkl. der Änderungen (2014/1771, 2019/492, 2021/422, 2021/1395, 2022/622, 2023/658), festgelegt sind.		
<b>Rudolstadt, Feb 05<sup>th</sup>, 2024</b>		
	Dr. St. Biehl General Manager	U. Oertel Manager MTD

The product met its published specifications at the time of extradition and has been produced in compliance with the Quality System certified according to EN ISO 9001:2015.  
Das Produkt erfüllt zum Zeitpunkt der Auslieferung die veröffentlichten Spezifikationen und wurde unter Einhaltung des zertifizierten Qualitätssystem nach EN ISO 9001:2015 gefertigt.

## **Annex to Product identification, Condition Monitoring System/ Anhang zur Produktbezeichnung, Condition Monitoring System**

### **Product names:**

Produktnamen:

#### **CMS**

CMSadvanced (Omega Guard) CMS-System Type 2xx, CMScompact, Omega Guard Portable 18 OGP18

#### **Sensors / Sensoren**

µ-Bridge, BAM100, BAM500, CLS300, BAM-MEMS-3D

x... Stand for any number, letter or can be optional.

## **Annex to EMC-Directive / Anhang zur EMV-Richtlinie**

### **This evidence includes the following standards:**

Dieser Nachweis beinhaltet folgende Normen:

#### Specifications: EN 61000-6-4:2007 + AMD1:2011; IEC 61000-6-4:2018

Electromagnetic compatibility (EMC) Part 6-4 Generic standards - Emission standard for industrial environments

Basic: EN 55016-2-3:2017 + A1:2019 + A2:2023

CISPR 16-2-3:2016 + AMD1:2019 + AMD2:2023

Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements

30MHz – 230MHz, Q-Peak limit 40dBµV/m, 10m distance, SAC

230MHz – 1GHz, Q-Peak limit 47dBµV/m, 10m distance, SAC

1GHz – 3GHz, Average limit 56dBµV/m, 3m distance, FAR

Peak limit 76dBµV/m, 3m distance, FAR

3GHz – 6GHz, Average limit 60dBµV/m, 3m distance, FAR

Peak limit 80dBµV/m, 3m distance, FAR

Basic: EN 55016-2-1:2014 + A1:2017; CISPR 16-2-1:2014 + AMD1:2017

Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-1: Methods of measurement of disturbances and immunity – Conducted disturbance measurements

150kHz – 500kHz, Q-Peak limit 79dBµV

Average limit 66dBµV

500kHz – 30MHz, Q-Peak limit 73dBµV

Average limit 60dBµV

150kHz – 500kHz, Q-Peak limit 53dBµA – 43dBµA

Average limit 40dBµA – 30dBµA

500kHz – 30MHz, Q-Peak limit 43dBµA

Average limit 30dBµA

Specifications: EN 61000-6-2:2005; IEC 61000-6-2:2016

Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments

Basic: EN 61000-4-2:2009; IEC 61000-4-2:2008

Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test

±4kV, ±2kV contact discharge, ≥ 10 per polarity and test point

±8kV, ±4kV, ±2kV air discharge, ≥ 10 per polarity and test point

Basic: EN 61000-4-3:2020; IEC 61000-4-3:2020

Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency electromagnetic field immunity test

80MHz-1GHz: 10V/m, 1.4GHz - 6GHz: 3V/m

Modulation: AM, Modulation depth: 80 %, Modulation frequency: 1 kHz

Basic: EN 61000-4-4:2012; IEC 61000-4-4:2012

Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test

Signal / Control lines all interfaces >3 m: ±1kV, 5ns/50ns, 5 & 100kHz

AC/DC mains inputs and outputs: ±2kV, 5ns/50ns, 5 & 100kHz

Basic: EN 61000-4-5:2014 + A1:2017; IEC 61000-4-5:2014 + AMD1:2017

Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test

Signal/Control lines>30m: Line(s) to Ground: ±0,5kV, ±1kV

DC mains input: Line to Line: ±0,5kV; Line(s) to Ground: ±0,5kV, ±1kV

AC mains input: Line to Line: ±0,5kV, ±1kV; Line(s) to Ground: ±0,5kV, ±1kV, ±2kV

Angle (AC): 0°, 90°, 180°, 270°

Basic: EN 61000-4-6:2023; IEC 61000-4-6:2023

Electromagnetic compatibility (EMC) Part 4-6: Testing and measuring techniques - Immunity to conducted disturbances, induced by radio-frequency fields

Frequency range: 150kHz - 80MHz, 10V

Modulation: 80% AM, 1kHz

Basic: EN 61000-4-8:2010; IEC 61000-4-8:2009

Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test

Frequency: 50Hz / 60Hz, 30A/m, Field direction: X, Y, Z

Basic: EN 61000-4-9:2016; IEC 61000-4-9:2016

Electromagnetic compatibility (EMC) Part 4-9: Testing and measuring techniques - Impulse magnetic field immunity test

Frequency: 50Hz, 1000A/m, Field direction: X, Y, Z

## **Annex to RoHS-Directive / Anhang zur RoHS-Richtlinie**

### **The directive concerns the following substances:**

Es handelt sich bei der Richtlinie um folgende Substanzen:

- Lead (0,1%) (Pb)
- Mercury (0,1%) (Hg)
- Cadmium (0,01%) (Cd)
- Hexavalent chromium (0,1%) (Cr)
- Polybrominated biphenyls (0,1%) (PBB)
- Polybrominated diphenyl ethers (0,1%) (PBDE)
- Bis (2-ethylexyl) phthalate (0,1%) (DEHP)
- Butyl benzyl phthalate (0,1%) (BBP)
- Dibutyl phthalate (0,1%) (DBP)
- Diisobutyl phthalate (0,1%) (DIBP)

## **Annex to Low Voltage-Directive / Anhang zur Niederspannungs-Richtlinie**

### **This evidence includes the following standards:**

Dieser Nachweis beinhaltet folgende Normen:

Specifications: EN 61010-1:2010 + AMD1:2019; IEC 61010-1:2010 + AMD1:2016 + COR1:2019

Safety requirements for electrical equipment for measurement, control and Laboratory use Part 1: General requirements

Specifications: EN 61010-2-201:2018; IEC 61010-2-201:2017

Safety requirements for electrical equipment for measurement, control and Laboratory use Part 1: General requirements