



# UK - DECLARATION OF CONFORMITY

## UK - KONFORMITÄTSERKLÄRUNG

<b>Name and Address of Manufacturer</b> Name und Anschrift des Herstellers	Bachmann electronic GmbH Kreuzäckerweg 33 6800 Feldkirch Austria
<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>M200 System for GRID-Applications</b> M200 System für Netzanwendungen
<b>EMC-Directive:</b> EMV-Richtlinie:  <b>2016/1091</b>  <b>RoHS-Directive:</b> RoHS-Richtlinie:  <b>2012/3032</b>  <b>Low Voltage-Directive:</b> Niederspannungs-Richtlinie:  <b>2016/1101</b>	<b>The Electromagnetic Compatibility Regulations 2016, No. 1091</b> Die Vorschriften zur elektromagnetischen Verträglichkeit 2016, Nr. 1091  <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>Electrical Equipment (Safety) Regulations 2016, No 1101</b> Vorschriften für elektrische Geräte (Sicherheit) 2016, Nr. 1101
<b>The mentioned manufacturer hereby declares that the products listed above comply with the essential health and safety requirements defined in Directives 2016/1091, 2016/1101 and 2012/3032 including the amendments (2014/1771, 2019/492, 2021/422, 2021/1395, 2022/622, 2023/658).</b> Der genannte Hersteller erklärt hiermit, dass die oben angeführten Produkte, den wesentlichen Gesundheits- und Sicherheitsanforderungen entsprechen, die in den Richtlinien 2016/1091, 2016/1101 und 2012/3032, inklusive der Änderungen (2014/1771, 2019/492, 2021/422, 2021/1395, 2022/622, 2023/658), festgelegt sind.	
<b>Feldkirch, Jan 29<sup>th</sup>, 2025</b>	 D. Pfeifer Director Technology
	 B. Zangerl Chief Executive Officer

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, M200 System for GRID-Applications / Anhang zur Produktbezeichnung, M200 System für Netzanwendungen

## Product names:

Produktnamen:

BS2xx/S, DOR206/xxx, GM260, GMP232/x, GMP232/x2, GSP274

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

Product names may be followed by CC.

## 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 40dB $\mu$ V/m, 10m distance, SAC

230MHz - 1GHz, Q-Peak limit 47dB $\mu$ V/m, 10m distance, SAC

1GHz - 3GHz, Average limit 56dB $\mu$ V/m, 3m distance, FAR

Peak limit 76dB $\mu$ V/m, 3m distance, FAR

3GHz - 6GHz, Average limit 60dB $\mu$ V/m, 3m distance, FAR

Peak limit 80dB $\mu$ V/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 79dB $\mu$ V

Average limit 66dB $\mu$ V

500kHz - 30MHz, Q-Peak limit 73dB $\mu$ V

Average limit 60dB $\mu$ V

150kHz - 500kHz, Q-Peak limit 53dB $\mu$ A - 43dB $\mu$ A

Average limit 40dB $\mu$ A - 30dB $\mu$ A

500kHz - 30MHz, Q-Peak limit 43dB $\mu$ A

Average limit 30dB $\mu$ A

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: 80% AM, 1kHz

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: 1000A/m, Field direction: X, Y, Z

Additional Specifications:

Basic: EN 61000-3-2:2019 + A1:2021 + A2:2024  
IEC 61000-3-2:2018 + AMD1:2020 + AMD2:2024  
Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)

Even: 2<sup>nd</sup> max 1.08A, 4<sup>th</sup> max 0.43A, 6<sup>th</sup> max 0.30A,  
8<sup>th</sup>  $\leq n \leq 40$ <sup>th</sup> max 0.23A\*8/n

Odd: 3<sup>rd</sup> max 2.30A, 5<sup>th</sup> max 1.14A, 7<sup>th</sup> max 0.77A,  
9<sup>th</sup> max 0.40A, 11<sup>th</sup> max 0.33A, 13<sup>th</sup> max 0.21A,  
15<sup>th</sup>  $\leq n \leq 39$ <sup>th</sup> max 0.15A\*15/n

Basic: EN 61000-3-3:2013 + A1:2019 + A2:2021  
IEC 61000-3-3:2013 + AMD1:2017 + AMD2:2021  
Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection

Flicker impedance:  $Z_{Ref}$  (IEC EN 60725)

Observation time for  $P_{ST}$ : 10min

Basic: EN 61000-4-12:2017; IEC 61000-4-12:2017  
Electromagnetic compatibility (EMC) Part 4-12: Testing and measuring techniques – Ring wave immunity test

Signal/Control lines shielded: Line(s) to Ground:  $\pm 0.5$ kV

Signal/Control lines unshielded: Line to Line:  $\pm 0.5$ kV; Line(s) to Ground:  $\pm 1$ kV

AC mains input: Line to Line:  $\pm 1$ kV; Line(s) to Ground:  $\pm 2.5$ kV

Test pulse: 12Ohm; Angle (AC): 0°, 90°, 180°, 270°

Basic: EN 61000-4-29:2000, IEC 61000-4-29:2000  
Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests

0% residual voltage, d.c. supply interruption  $\geq 10$ ms

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

### **The following concentrations of hazardous substances are not exceeded:**

Folgende Konzentrationen von gefährlichen Stoffen werden nicht überschritten:

- 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 standard:**

Dieser Nachweis beinhaltet folgende Norm:

Specifications: EN 61131-2:2007; IEC 61131-2:2017

Industrial-process measurement and control - Programmable controllers - Part 2:  
Equipment requirements and tests