
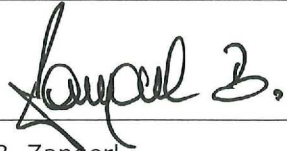


# EU - DECLARATION OF CONFORMITY

## EU - 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>M100 Series</b> M100 Serie
<b>EMC-Directive:</b> EMV-Richtlinie:  <b>2014/30/EU</b>   <b>RoHS-Directive:</b> RoHS-Richtlinie:  <b>2011/65/EU</b>   <b>2015/863</b>	<p><b>Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility, OJ L 96, 29.3.2014, p. 79–106</b>          Richtlinie 2014/30/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit, ABl. L 96 vom 29.3.2014, S. 79–106</p> <p><b>Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, OJ L 174, 1.7.2011, p. 88–110</b>          Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten, ABl. L 174 vom 1.7.2011, S. 88–110</p> <p><b>Commission delegated directive (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances, OJ L 137, 4.6.2015, p. 10–12</b>          Delegierte Richtlinie (EU) 2015/863 der Kommission vom 31. März 2015 zur Änderung von Anhang II der Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates hinsichtlich der Liste der Stoffe, die Beschränkungen unterliegen, ABl. L 137 vom 4.6.2015, S. 10–12</p>
<p><b>The mentioned manufacturer hereby declares that the products listed above comply with the essential health and safety requirements defined in Directives 2014/30/EU and 2011/65/EU, including the amendment to Annex II (Directive 2015/863).</b></p> <p>Der genannte Hersteller erklärt hiermit, dass die oben angeführten Produkte, den wesentlichen Gesundheits- und Sicherheitsanforderungen entsprechen, die in den Richtlinien 2014/30/EU und 2011/65/EU, inklusive der Änderung zum Anhang II (Richtlinie 2015/863), festgelegt sind.</p>	
<b>Feldkirch,</b> <b>Jan 29<sup>th</sup>, 2025</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">               D. Pfeifer              Director Technology           </div> <div style="text-align: center;">               B. Zangerl              Chief Executive Officer           </div> </div>

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, M100 Series / Anhang zur Produktbezeichnung, M100 Serie

## Product names:

Produktnamen:

AIM112, AIO104/I, AIO112, BPR1xx, BPS1xx, COM10x, DIS1xx, DOH108, DOS1xx, EAS102, EII102, NEC102, PSI135, UIO106

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

Product names may be followed by EC.

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

### This evidence includes the following standards:

Dieser Nachweis beinhaltet folgende Normen:

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

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

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 >3m: ±1kV, 5ns/50ns, 5 & 100kHz  
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

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

Basic: EN 61000-4-12:2017; IEC 61000-4-12:2017

Electromagnetic compatibility (EMC) Part 4-12: Testing and measurement techniques - Ring wave immunity test

Signal/Control lines >10m: Line(s) to Ground: ±0.5kV, ±1kV  
DC mains input: Line to Line: ±0.5kV, ±1kV; Line(s) to Ground: ±0.5kV, ±1kV, ±2kV

## **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:

- Blei (0.1%) (Pb)
- Quecksilber (0.1%) (Hg)
- Cadmium (0.01%) (Cd)
- Sechswertiges Chrom (0.1%) (Cr)
- Polybromierte Biphenyle (0.1%) (PBB)
- Polybromierte Diphenylether (0.1%) (PBDE)
- Di(2-ethylhexyl)phthalat (0.1%) (DEHP)
- Butylbenzylphthalat (0.1%) (BBP)
- Dibutylphthalat (0.1%) (DBP)
- Diisobutylphthalat (0.1%) (DIBP)