

UK - DECLARATION OF CONFORMITY
UK - KONFORMITÄTSERKLÄRUNG

**Name and Address
of Manufacturer**

Name und Anschrift des
Herstellers

Bachmann electronic GmbH
Kreuzäckerweg 33
6800 Feldkirch
Austria

This declaration of conformity is made under the sole responsibility of the manufacturer.
Diese Konformitätserklärung erfolgt in der alleinigen Verantwortung des Herstellers.

Product identification
Produktbezeichnung

M1 Series
M1 Serie

EMC-Directive:
EMV-Richtlinie:

2016/1091

The Electromagnetic Compatibility Regulations 2016, No. 1091

Die Vorschriften zur elektromagnetischen Verträglichkeit 2016, Nr. 1091

RoHS-Directive:
RoHS-Richtlinie:

2012/3032

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, No. 3032

Die Vorschriften zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten 2012, Nr. 3032

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 and 2012/3032 including the Amendments (2014/1771, 2019/492, 2021/422, 2021/1395, 2022/622, 2023/658).

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 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.

**Feldkirch,
Jan 08th, 2024**



D. Pfeifer
Director Technology



B. Zangerl
Chief Executing 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, M1 Series / Anhang zur Produktbezeichnung, M1 Serie

Product names:

Produktnamen:

ACR2xx/x, AI2xx/xx, AIC2xx/x, AIO2xx/xx, AP211, AO2xx/xx, BEM2xx, BES2xx/x, BS2xx/xx, CF200/xxxx, CFA 200/xxx, CFast Card xxGB, CPC2xx/x, CM202, CNT204/x, CS200/x, DA3284-C, DI2xx/xxx, DIOxx-xx, DIO2xx/x, DIO2xx-C, DIOxx-C, DMS202, DNM201, DO2xx/xx, DPM200, ECL211/x, ECS2xx, EM2xx, ERS2xx, ES200/xx, FCS2xx/x, FM2xx, FS2xx/xx, GIO2xx/x, HUB204/x, IOP201, ISI202/x, ISI222/x, LM201, LM20, M1-SET, M1-STG, MC2xx/xx, MBUS2xx, ME20x/xxx, MH2xxx, MP2xx/xx, MPx2xx/xx, MX2xx/xx, NT25x/xx, PAS2xx, PCC20x/xx, PCFS212, PCM2xx, PN23, PTAI216, PVA20x, PWM202, RS204/x, S201, SAI205, SCT2xx, SDx2xx, SEM201, SFS2xx-C, SLC284, SWI2xx/x, TCO2xx-C, TI214/x, TTL264, USB Dongle xxx, USB Flash Drive xxx, VP200/x

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

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 μ V/m, 10m distance, SAC

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

1GHz – 3GHz, Average limit 56dB μ V/m, 3m distance, FAR

Peak limit 76dB μ V/m, 3m distance, FAR

3GHz – 6GHz, Average limit 60dB μ V/m, 3m distance, FAR

Peak limit 80dB μ 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 μ V

Average limit 66dB μ V

500kHz – 30MHz, Q-Peak limit 73dB μ V

Average limit 60dB μ V

150kHz – 500kHz, Q-Peak limit 53dB μ A – 43dB μ A

Average limit 40dB μ A – 30dB μ A

500kHz – 30MHz, Q-Peak limit 43dB μ A

Average limit 30dB μ 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: 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)