



## **Statement: PROFIsafe with Anybus Wireless Bridge II and Anybus Wireless Bolt**

The Anybus Wireless Bridge II and Anybus Wireless Bolt [parts numbers: AWB2000, AWB2030, AWB3000, AWB3010] is approved to transport PROFIsafe data over PROFINET using WLAN or Bluetooth according to the guidelines given in the PROFIsafe profile version 2.6.1 – Date August 2014 Order No.: 3.192, Profile part, related to IEC 61784-3-3, Edition 3.

### **General guidelines for compliance**

The PROFIsafe profile requires that all configuration interfaces are protected. A password protection is not enough. There shall be an encrypted access like https, or the configuration interfaces shall be switched off. This can be hard to achieve with consumer type equipment that lack such configuration and security options. Anybus wireless products can be configured to comply with the needs for PROFIsafe compatibility. The Web-interface for example can still show diagnostic information, but will give no possibilities to change any setting. The AT command interface configuration ability can be disabled as well and will then only show diagnostic status information.

The AT-command AT\*AMPSM "PROFIsafe Mode" can be used to activate the PROFIsafe mode.

### **Black Channel approach according to the PROFIsafe profile section 9.8.1**

Wireless transmission channels are classified to be part of the "black channel" and thus do not need to be assessed for safety as FSCP 3/1 (PROFIsafe protocol) is approved for a bit error probability up to  $10e-2$  on the wireless channel.

Further details about necessary measures for compliance are listed in PROFIsafe profile version 2.6.1, section 9.8 and specifically important are figures 85 and 86 and tables 32 and 34 if the intention is to keep configuration interfaces active. This can however be discarded if configuration interfaces are disabled/switched to "read-only".

HMS Industrial Networks AB, January 25<sup>th</sup> 2018.

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