

Anybus® WLAN Access Point IP67

STARTUP GUIDE

SP2383 1.3 en-US ENGLISH





Important User Information

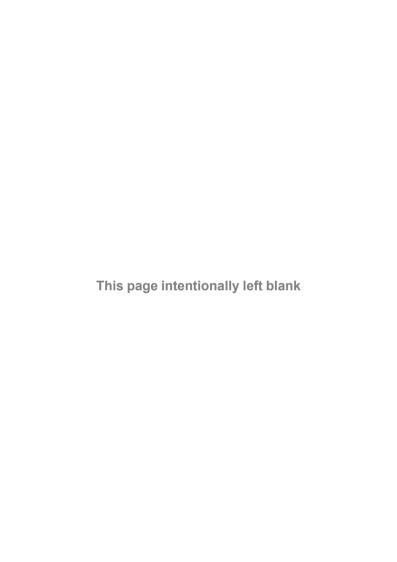
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About This Document 3 (18)

1 About This Document

This document describes how to install Anybus WLAN Access Point IP67.

For additional documentation and software downloads, FAQs, troubleshooting guides and technical support, please visit www.anybus.com/support.

1.1 Document Conventions

The following conventions are used to indicate safety information and other important content in this document:



WARNING

Instruction that must be followed to avoid a risk of death or serious injury.



Caution

Instruction that must be followed to avoid a risk of personal injury.



Instruction that must be followed to avoid a risk of reduced functionality and/or damage to the equipment, or to avoid a network security risk.



Additional information which may facilitate installation and/or operation.

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2 Safety

2.1 General Safety Instructions



Caution

This equipment emits RF energy in the ISM (Industrial, Scientific, Medical) band. Make sure that all medical devices used in proximity to this device meet appropriate susceptibility specifications for this type of RF energy.



This product contains parts that can be damaged by electrostatic discharge (ESD). Use ESD prevention measures to avoid damage.



To prevent water intrusion, make sure that the unit is installed with the connectors on the bottom panel of the unit facing down.

2.2 Intended Use

The intended use of this equipment is as a communication interface and gateway. The equipment receives and transmits data on various physical levels and connection types.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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2.3 5 GHz Transmission Power Restriction (EU only)



Transmission power must be reduced for 5 GHz channels 149-165 when the unit is used in the EU.

To comply with the European Radio Equipment Directive (RED) the effective radiated power output for 5 GHz channels 149-165 (U-NII-3) must not exceed 25 mW (~14 dBm) when the unit is used in the EU.

To configure the unit for use within the EU, set Tx Power to 14 dBm or less on the Wireless 1 Options page of the web configuration interface.

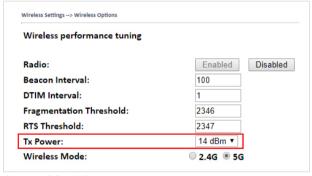


Fig. 1 Wireless Settings

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3 Installation

The Anybus WLAN Access Point IP67 can be screw-mounted onto a stable flat surface using the included wall mounting kit. It can also be pole-mounted using the included adjustable steel band straps.

For optimal reception, wireless devices require a zone between them clear of objects that could otherwise obstruct or reflect the signal. A minimum distance of 50 cm between the devices should also be observed to avoid interference.

Make sure that you have all the necessary information about the capabilities and restrictions of your local network environment before installation.

Package Contents

After unpacking the access point, check the contents to be sure you have received all the components:

- Anybus WLAN Access Point IP67 (1 x)
- Wall mounting kit (1 x)
 - Mounting plate (1 x)
 - Screw 5.8 mm x 14.8 mm for fixed mounting plate (4 x)
 - Screw 6.3 mm x 25.3 mm for wall mount (4 x)
- Steel band strap (2 x)
- Antenna (2 x)
- Grounding cable (1x)
- Grounding screw with washer (2x)
- Startup Guide (1 x)

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3.1 Overview

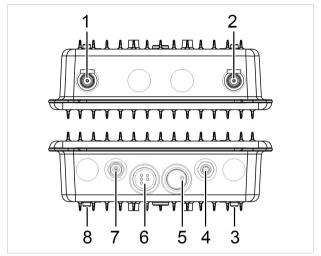


Fig. 2 Overview

1, 2	Antenna connector (N)
3, 8	Threaded hole for grounding screw
4	Ethernet connector (M12)
5	Reset button
6	LED indicators
7	Power connector (M12)

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3.2 Wall Mounting

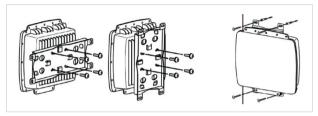


Fig. 3 Wall mounting

- Attach the mounting plate to the back of the unit using the 4 included screws. The plate can be attached vertically or horizontally.
- 2. Hold the unit upright against the wall and fasten it with 4 screws through the apertures in the plate.

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3.3 Pole Mounting

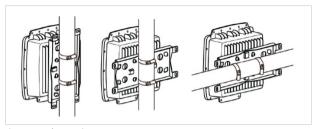


Fig. 4 Pole mounting

- Attach the mounting plate to the back of the unit using the 4 included screws. The plate can be attached vertically or horizontally.
- Thread the two supplied metal mounting straps through the large slots on the mounting plate and then put the straps around the pole.



To prevent water intrusion, make sure that the unit is installed with the connectors on the bottom panel of the unit facing down.

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3.4 Power Connector (M12)

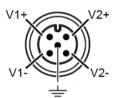
The power connector is a 5-pin A-coded M12 type connector that supports dual power inputs with a common ground connection.



Connecting power with reverse polarity or using the wrong type of power supply may damage the equipment. Make sure that the power supply is correctly connected and of the recommended type.

See also Technical Data, p. 15 regarding power supply requirements.

Pin	Function
V1+	Power Input 1 +
V1-	Power Input 1 -
V2+	Power Input 2 +
V2-	Power Input 2 -
÷	Power Ground



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3.5 Ethernet Connector (M12)

The Ethernet connector is an 8-pin A-coded M12 type connector. The Ethernet port supports PoE (Power over Ethernet) compliant with IEEE 802.3af.



A Power over Ethernet power source is not included with the equipment. The power source must be UL (UL 62368-1) certified for UL compliance, fully compliant with IEEE 802.3af, marked "Limited Power Source", "LPS" or "Class 2", and have a rated voltage of 48 VDC and output meeting ES1 (SELV) and PS2.

See also *Technical Data*, p. 15 regarding power supply requirements.

Pin	Function		
1	BI_DC+		
2	BI_DD+		
3	BI_DD-		
4	BI_DA-		
5	BI_DB+		
6	BI_DA+		
7	BI_DC-		
8	BI DB-		



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3.6 Ethernet Cabling

When planning a cable route from the access point (outdoors) to the power injector module (indoors), consider the following guidelines:

- Determine a building entry point for the cable.
- Determine if conduits, bracing, or other structures are required for safety or protection of the cable.
- For lightning protection at the power injector end of the cable, consider using a lightning arrestor immediately before the cable enters the building.
- Power cable and Ethernet cable are not included with the unit. The cables and connectors must be waterproof and installed by a professional.

3.7 Grounding

When connecting a ground wire to the Anybus WLAN Access Point IP67, use the grounding screw on the unit. Use #20 AWG or larger copper core ground wire. The ground wire can be connected to a point on the bracket, pole, metal grounding plate, or directly to an earth termination. Make sure that there is a good electrical connection between the ground wire and the grounding point (no paint or isolating surface treatment).

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3.8 LED Indicators

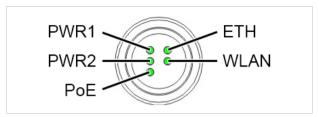


Fig. 5 LED indicators on bottom panel

PWR1	Green	Power supplied on Power Input 1
PWR2	Green	Power supplied on Power Input 2
PoE	Green	Power supplied on Ethernet port
	Off	No LAN
ETH	Green	LAN link established
	Green, flashing	LAN traffic
	Off	No WLAN
WLAN	Green	WLAN link established
	Green, flashing	WLAN traffic

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4 Configuration

Anybus WLAN Access Point IP67 is configured via a web interface which is accessed by pointing a web browser to the IP address of the unit. The computer accessing the web interface must be in the same IP subnet as the access point.

Default web interface settings

IP address 192.168.0.2

User ID admin
Password admin

See the Anybus WLAN Access Point IP67 User Manual for more information about how to configure the access point.

4.1 Factory Reset

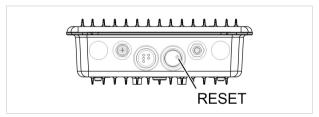


Fig. 6 Reset

To restore the factory default settings, press and hold **RESET** on the front panel until the power LED indicator(s) starts to flash, then release the button.

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5 Technical Data

5.1 Technical Specifications

Order code	AWB4004
Wireless antenna	External (N-type)
Wired interface	Ethernet
Ethernet port	10/100/1000Base-T(X) Auto MDI/MDX
	M12 8-pin female A-coded connector
Power connector	M12 5-pin female A-coded connector
	(dual power inputs in single connector)
Power supply	2 x 12–48 VDC
Power over Ethernet	44–57 VDC DTE Type1 according to IEEE 802.3af
Current consumption	Max. 0.75 A @ 12 VDC (9 W)
Dimensions (WxHxD)	310 x 87 x 310 mm
Weight	2.56 kg
Operating temperature	-25 to +70 °C
Storage temperature	-40 to +85 °C
Humidity	5 % to 95 % non-condensing
Mounting	Wall mount or pole mount
Housing	Metal
Protection class	IP67
Certifications	See datasheet

For more technical details and specifications, visit www.anybus.com/support.

Disposal and recycling



You must dispose of this product properly according to local laws and regulations. Because this product contains electronic components, it must be disposed of separately from household waste. When this product reaches its end of life, contact local authorities to learn about disposal and recycling options, or simply drop it off at your local HMS office or return it to HMS.

For more information, see www.hms-networks.com.

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5.2 Dimensions

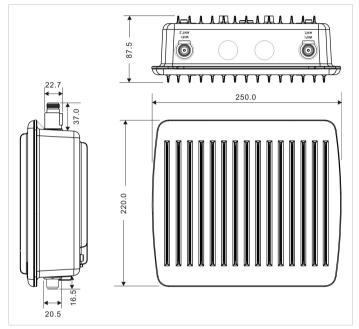
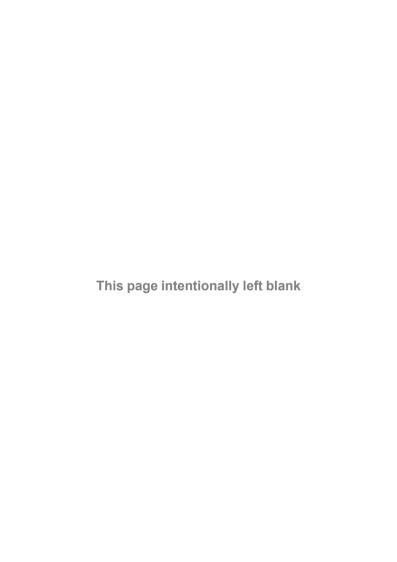


Fig. 7 Dimensions

All measurements are in mm.



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