



Anybus® PoE Injector

100-240 VAC

STARTUP GUIDE

SP2384 1.3 en-US ENGLISH



Important User Information

Disclaimer

The information in this document is for informational purposes only. Please inform HMS Industrial Networks of any inaccuracies or omissions found in this document. HMS Industrial Networks disclaims any responsibility or liability for any errors that may appear in this document.

HMS Industrial Networks reserves the right to modify its products in line with its policy of continuous product development. The information in this document shall therefore not be construed as a commitment on the part of HMS Industrial Networks and is subject to change without notice. HMS Industrial Networks makes no commitment to update or keep current the information in this document.

The data, examples and illustrations found in this document are included for illustrative purposes and are only intended to help improve understanding of the functionality and handling of the product. In view of the wide range of possible applications of the product, and because of the many variables and requirements associated with any particular implementation, HMS Industrial Networks cannot assume responsibility or liability for actual use based on the data, examples or illustrations included in this document nor for any damages incurred during installation of the product. Those responsible for the use of the product must acquire sufficient knowledge in order to ensure that the product is used correctly in their specific application and that the application meets all performance and safety requirements including any applicable laws, regulations, codes and standards. Further, HMS Industrial Networks will under no circumstances assume liability or responsibility for any problems that may arise as a result from the use of undocumented features or functional side effects found outside the documented scope of the product. The effects caused by any direct or indirect use of such aspects of the product are undefined and may include e.g. compatibility issues and stability issues.

1 About This Document

This document describes how to install Anybus PoE Injector 100–240 VAC.

For additional documentation and technical support regarding this product, 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.

2 Safety

2.1 General Safety Instructions

**WARNING**

Electrical shock hazard. Do not try to open or disassemble the device.

**Caution**

Hot surfaces. Use a dry cloth for cleaning.

**Caution**

Risk of overheating. Do not block the air ventilation openings.

**Caution**

No user serviceable parts inside. Return unit to manufacturer for service.



The equipment is of open type and must be installed in a suitable enclosure. Ambient temperature must not exceed 70 °C.

2.2 Intended Use

The intended use of this equipment is to provide DC power over Ethernet cables.

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

3 Description

Anybus PoE Injector 100–240 VAC is a dual port 802.3af/at compliant Power over Ethernet injector with Midspan Intelligent Detection.

The PoE injector will not turn on power until it detects a valid PoE signature from the devices attached downstream on the Ethernet cable. This protects non-compliant equipment against damage.

Anybus PoE Injector 100–240 VAC will not function with equipment that is not fully compliant with the IEEE 802.3af/at PoE standards.

4 Installation

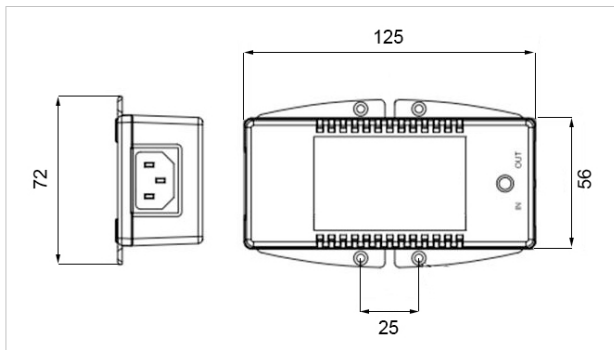


Fig. 1 Dimensions

All measurements are in mm.



Minimum installation clearance from ventilation openings: 100 mm

4.1 Connectors

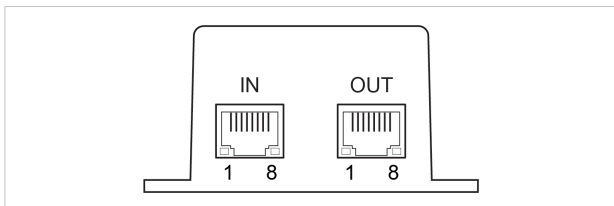


Fig. 2 RJ45 Ethernet connectors

RJ45 pinning

Pin	Name	IN (data only)	OUT (data + power)
1	Rx+	Data Receive	Data Receive
2	Rx-	Data Receive	Data Receive
3	Tx+	Data Transmit	Data Transmit
4	-Vdc_return(+)	(not connected)	Feeding power(+)
5	-Vdc_return(+)	(not connected)	Feeding power(+)
6	Tx-	Data Transmit	Data Transmit
7	-Vdc	(not connected)	Feeding power(-)
8	-Vdc	(not connected)	Feeding power(-)



Do not connect pin 7 or pin 8 to ground.

A Technical Data

A.1 Technical Specifications

Order code	AWB4005-B
PoE standard	IEEE 802.3at/802.3af
Ethernet IN	1 x RJ45 (Data, 10/100/1000 Base-T(x)) For UL compliance use +105 °C rated cables
Ethernet OUT	1 x RJ45 (Data and power, 10/100/1000 Base-T(x)) For UL compliance use +105 °C rated cables
Input voltage	100–240 VAC For UL compliance use a 20 A no-fuse breaker and minimum 18 AWG, +105 °C, ELBZ rated power cable
Output voltage	56 V / 630 mA @ 35 W
LED power indicator	—
LED PoE indicators	1 x LED (power, error)
Short circuit protection	Yes
Overload protection	Yes
High voltage protection	Yes
Mounting	Wall mount with screws
Weight	210 g
Protection class	IP21
Storage temperature	-40 to +85 °C
Operating temperature	-25 to +60 °C
Housing	Plastic (PC)
Dimensions W×H×D	75 x 125 x 38
Certifications	See datasheet

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.

© 2019 HMS Industrial Networks
Box 4126
300 04 Halmstad, Sweden

info@hms.se

SP2384 1.3 en-US / 2019-07-31 / 14262