

M212450EN-A

DRAFT

Technical Specification

Vaisala Beacon Station

BWS500

VAISALA

PUBLISHED BY

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1. About this document

1.1 Version information

This document provides the regulatory information of Vaisala Beacon Station BWS500.

Table 1 Document versions (English)

Document code	Date	Description
M212450EN	December 2020	First version.

1.2 Related manuals

Table 2 BWS500 manuals

Document code	Name
M212451EN	<i>Vaisala Beacon Station BWS500 Setup Guide for Mast Installation</i>
M212533EN	<i>Vaisala Beacon Station BWS500 Setup Guide for Tripod Installation</i>
M212525EN	<i>Vaisala Beacon Station BWS500 Spare Part List</i>
M212478EN	<i>Vaisala Beacon Station BWS500 System Description</i>
M212450EN	<i>Vaisala Beacon Station BWS500 Technical Specification</i>

Table 3 Other manuals

Document	Name
M212133EN	<i>Vaisala Beacon Cloud XML API Reference</i>
M212555EN	<i>EGW501 Device Activation Code</i>
M212534EN	<i>EGW501 and PSU501/502 Setup Guide for Wall Installation</i>
M211840EN	<i>Vaisala Weather Transmitter WXT530 Series User Guide</i>

For BWS500 support information and materials, see <https://www.vaisala.com/en/bws500-support>.

2. Regulatory compliance

This product complies with the following regulations:

- Low Voltage Directive (2014/35/EU)
- EMC Directive (2014/30/EU)
- RoHS Directive (2011/65/EU)
- European Union CE marking
- Great Britain UKCA marking
- Australian RCM marking

2.1 FCC/ISED regulatory notices

Modification statement

Vaisala Oyj has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Vaisala Oyj n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

Interference statement

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Wireless notice

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites d'exposition aux rayonnements de l'ISDE pour un environnement non contrôlé. L'antenne doit être installée de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

FCC Class B digital device notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

CAN ICES-3 (B) / NMB-3 (B)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de classe B est conforme à la norme canadienne NMB-003.

3. Technical data

3.1 BWS500 specifications

Table 4 BWS500 operating environment

Property	Description/Value
Operating temperature	-40 ... +55 °C (-40 ... +131 °F)
Storage temperature	-40 ... +70 °C (-40 ... +158 °F)
Operating humidity	0 ... 100 %RH
Operating altitude, maximum	2000 m (6560 ft)
Pollution degree	2
Overvoltage category	II

Table 5 BWS500 powering

Property	Description/Value
Powering options	<ul style="list-style-type: none"> Battery unit for AC (mains) power or solar panel use DC input without battery unit
AC (mains) power	100 - 240 VAC 50 - 60 Hz 800 mA
AC (mains) fuse, internal (non-replaceable)	T 3.15
AC (mains) cable connection	<ul style="list-style-type: none"> Conductor cross section (flexible): 0.75 ... 2.5 mm² (AWG 20 ... 14) Cable lead-through: for 6 ... 12.5 mm (0.24 ... 0.49 in) cable
External DC	15 ... 32 VDC Max. 2 A
Solar panel ¹⁾	20 W for Vaisala provided solar panel Input <ul style="list-style-type: none"> Absolute maximum: 0 ... 32 VDC Operating: 15 ... 32 VDC Maximum 6 A
Battery	Lead acid battery
Battery capacity	12 VDC 7 Ah

Property	Description/Value
Power consumption	
EGW	<1 W, typical
PSU501	30 W, maximum
PSU502	40 W, maximum

- 1) *Solar panel feasibility and operation depends on the installation location and the amount of sunshine.*

Table 6 BWS500 communication options

Property	Description/Value
Wireless communication	4G LTE / 3G / 2G
Maintenance communication	USB 3.0 Web UI (locally)
Data collection and visualization	Vaisala Beacon Cloud
Data interfaces	<ul style="list-style-type: none"> • Vaisala Beacon Cloud open API • Lightweight machine-to-machine (LwM2M) interface

Table 7 BWS500 compliance

Property	Description/Value
EU directives	EMC, LVD, RoHS, RED
Compliance marks	CE, UKCA, FCC, IC, RCM
EMC compatibility	IEC / EN / BS EN 61326-1, industrial environment CISPR 32 / EN 55032 / BS EN 55032, Class B EN 301489-1 FCC 15B ICES-3 (B)
Electrical safety	IEC 61010-1
Cold	IEC 60068-2-1
Dry heat	IEC 60068-2-2
Vibration	IEC 60068-2-6 IEC 60068-2-64
Change of temperature	IEC 60068-2-14
Damp heat, cyclic	IEC 60068-2-30
Rough handling	IEC 60068-2-31

Property	Description/Value
Damp heat	IEC 60068-2-78

3.2 EGW501 specifications

Table 8 EGW501 operating environment

Property	Description/Value
Operating temperature	-40 ... +55 °C (-40 ... +131 °F)
Storage temperature	-40 ... +70 °C (-40 ... +158 °F)
Operating humidity	0 ... 100 %RH, non-condensing
Operating altitude, maximum	2000 m (6560 ft)
Pollution degree	2

Table 9 EGW501 powering

Property	Description/Value
Operating voltage	9 - 32 VDC
Current consumption, maximum	2 A
Mating connectors (power input)	M12 female A-coded 4-pin connector

Table 10 DMU801 processing system

Property	Description/Value
Processor	ARM Cortex A9
Memory	1 GB DDR3L RAM, 8 GB eMMC Flash
Operating system	Linux
Communications protocol	IPv4 and IPv6

Table 11 EGW501 radio module

Property	Value/Description
Acceptance	CE (Europe), FCC (USA), IC (Canada)
SIM card type	Mini-SIM
Frequency bands	

Property	Value/Description
LTE-FDD	B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/ B13/ B18/ B19/ B20/ B25/ B26/ B28
LTE-TDD	B38/ B39/ B40/ B41
WCDMA	B1/ B2/ B4/ B5/ B6/ B8/ B19
GSM	B2/ B3/ B5/ B8

Table 12 EGW501 mechanical specifications

Property	Description/Value
Weight	1 kg (2.2 lb)
Package dimensions (L × W × H)	306 × 184 × 156 mm (12.05 × 7.24 × 6.14 in)
IP rating	IP67
Material, enclosure	Polycarbonate (PC)
Material, connectors	Nickel-plated brass

Table 13 EGW501 compliance

Test	Standard
EU directives	EMC, LVD, RoHS, RED
Compliance marks	CE, UKCA, FCC, IC, RCM
EMC compatibility	IEC / EN / BS EN 61326-1, industrial environment CISPR 32 / EN 55032 / BS EN 55032, Class B EN 301489-1 FCC 15B ICES-3 (B)
Radio compatibility	EN 301 908-1 EN 301 511 FCC part 22, 24, 27, 90
Electrical safety	IEC 61010-1
Cold	IEC 60068-2-1
Dry heat	IEC 60068-2-2
Vibration	IEC 60068-2-6 IEC 60068-2-64
Change of temperature	IEC 60068-2-14

Test	Standard
Damp heat, cyclic	IEC 60068-2-30
Rough handling	IEC 60068-2-31
Damp heat	IEC 60068-2-78

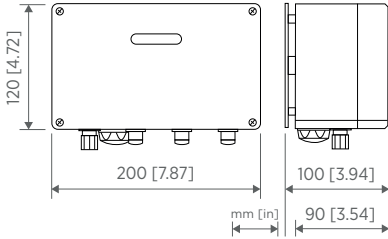


Figure 1 EGW501 dimensions

3.3 WXT536 Specifications

Table 14 WXT530 barometric pressure measurement performance

Property	Description/Value
Observation range	500 ... 1100 hPa
Accuracy (for sensor element) at 600 ... 1100 hPa	±0.5 hPa at 0 ... +30 °C (+32 ... +86 °F) ±1 hPa at -52 ... +60 °C (-60 ... +140 °F)
Output resolution	0.1 hPa / 10 Pa / 0.001 bar / 0.1 mmHg / 0.01 inHg
Units available	hPa, Pa, bar, mmHg, inHg

Table 15 WXT530 air temperature measurement performance

Property	Description/Value
Observation range	-52 ... +60 °C (-60 ... +140 °F)
Accuracy (for sensor element) at +20 °C (+68 °F) ¹⁾	±0.3 °C (±0.54 °F)
Output resolution	0.1 °C (0.1 °F)
Units available	°C, °F

1) A naturally aspirated radiation shield is applied which can affect readings in calm wind.

Table 16 WXT530 relative humidity measurement performance

Property	Description/Value
Observation range	0 ... 100 %RH
Accuracy (for sensor element) ¹⁾	±3 %RH at 0 ... 90 %RH ±5 %RH at 90 ... 100 %RH
Output resolution	0.1 %RH
PTU measuring interval	1 ... 3600 s (= 60 min), at 1 s steps

1) A naturally aspirated radiation shield is applied which can affect readings in calm wind.

Table 17 WXT530 precipitation measurement performance

Property ¹⁾	Description/Value
Collecting area	60 cm ² (9.3 in ²)
Rainfall ²⁾	
Output resolution	0.01 mm (0.001 in)
Field accuracy for daily accumulation ³⁾	Better than 5 %, weather-dependent
Units available	mm, in
Duration	Counting each 10-second increment whenever droplet detected
Duration output resolution	10 s
Intensity	Running 1-minute average, 10 s steps
Intensity observation range	0 ... 200 mm/h (0 ... 7.87 in/h) (broader with reduced accuracy)
Intensity output resolution	0.1 mm/h (0.01 in/h)
Units available	mm/h, in/h
Hail ⁴⁾	
Output resolution	0.1 hits/cm ² (1 hits/in ²), 1 hit
Units available	hits/cm ² , hits/in ² , hits
Intensity output resolution	0.1 hits/cm ² h (1 hits/in ² h), 1 hit/h

Property ¹⁾	Description/Value
Units available	hits/cm ² h, hits/in ² h, hits/h

- 1) *Precipitation measurement is performed for liquid precipitation.*
- 2) *Cumulative accumulation after the latest automatic or manual reset*
- 3) *Due to the nature of the phenomenon, deviations caused by spatial variations may exist in precipitation readings, especially in short time scale. The accuracy specification does not include possible wind-induced error.*
- 4) *Cumulative number of hits against collecting surface*

Table 18 WXT530 wind measurement performance

Property	Description/Value
Wind speed ¹⁾	
Observation range	0 ... 60 m/s (134 mph)
Reporting range	0 ... 75 m/s (168 mph)
Response time	0.25 s
Available variables	Average, maximum, and minimum
Accuracy	±3 % at 10 m/s (22 mph)
Output resolution	0.1 m/s (km/h, mph, knots)
Units available	m/s, km/h, mph, knots
Wind direction ¹⁾	
Azimuth	0 ... 360°
Response time	0.25 s
Available variables	Average, maximum, and minimum
Accuracy	±3.0° at 10 m/s (22 mph)
Output resolution	1°
Wind measurement frame	
Averaging time	1 ... 3600 s, sample rate 1, 2, or 4 Hz
Update interval	1 ... 3600 s (= 60 min), at 1 s steps

- 1) *NTP (normal temperature and pressure) condition applied for wind tunnel testing.*

Table 19 WXT530 inputs and outputs

Property	Description/Value
Operating voltage	6 ... 24 VDC (-10 ... +30 %)

Property	Description/Value
Average power consumption	Minimum: 0.1 mA at 12 VDC (SDI-12 standby) Typical: 3.5 mA at 12 VDC (typical measuring intervals ¹⁾) Maximum: 15 mA at 6 VDC (constant measurement of all parameters)
Heating voltage	DC, AC, or full-wave rectified AC 12 ... 24 VDC (-10 ... +30 %) 12 ... 17 VAC _{rms} (-10 ... +30 %)
Typical heating current	12 VDC: 800 mA, 24 VDC: 400 mA 12 VAC _{rms} : 1.1 A 17 VAC _{rms} : 800 mA
Digital outputs	SDI-12, RS-232, RS-485, RS-422
Communication protocols	SDI-12 v1.3, Modbus RTU, ASCII automatic and polled, NMEA 0183 v3.0 with query option
Self-diagnostic	Separate supervisor message, unit/status fields to validate measurement stability
Startup	Automatic, < 5 seconds from power on to the first valid output

- 1) *Wind 10-second average with 2-minute interval at 4 Hz sampling rate, RS-232 19200 bps with jumper wires, PTU 10-second interval, Pt1000, level, tipping bucket, and solar radiation 5-second interval.*

Table 20 WXT530 operating environment

Property	Description/Value
Operating temperature	-52 ... +60 °C (-60 ... +140 °F)
Storage temperature	-60 ... +70 °C (-76 ... +158 °F)
Relative humidity	0 ... 100 %RH
Pressure	600 ... 1100 hPa
Wind ¹⁾	0 ... 60 m/s (0 ... 134 mph)
IP rating	IP65, with mounting kit: IP66

- 1) *Due to the measurement frequency used in the sonic transducers, RF interference in the 200 ... 400 kHz range can disturb wind measurement.*

Table 21 WXT530 compliance

Property	Description/Value
EMC compatibility	IEC 61326-1, industrial environment CISPR 32 / EN 55032, Class B
Environmental	IEC 60068-2-1, 2, 6, 14, 30, 31, 52, 78 IEC 60529, VDA 621-415

Table 22 WXT530 mechanical specifications

Property	Description/Value
Materials	
Radiation shield, top, and bottom parts	Polycarbonate +20 % fiberglass
Precipitation sensor plate	Stainless steel (AISI 316)

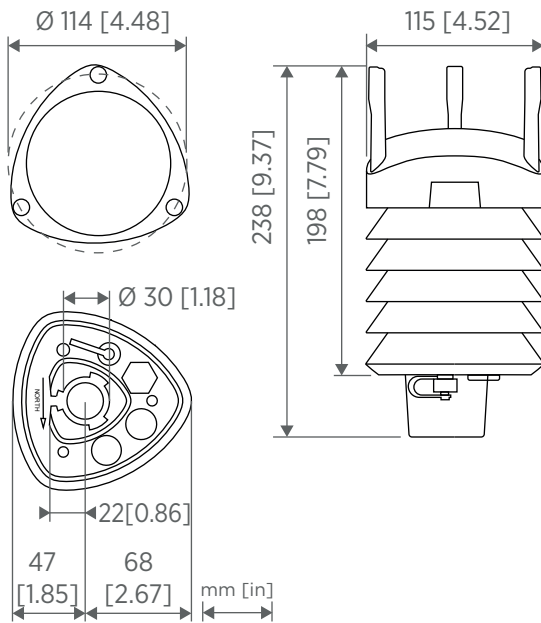


Figure 2 WXT536 dimensions

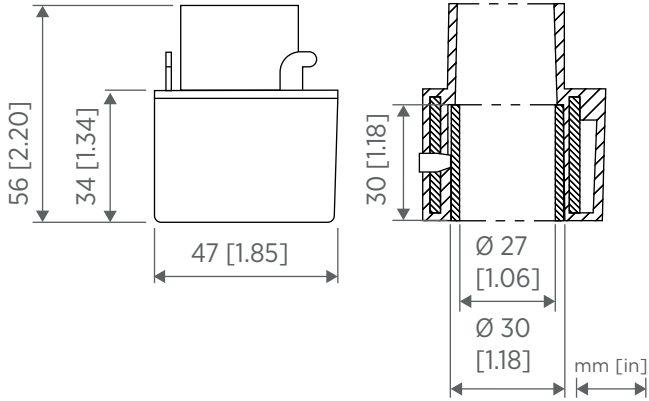
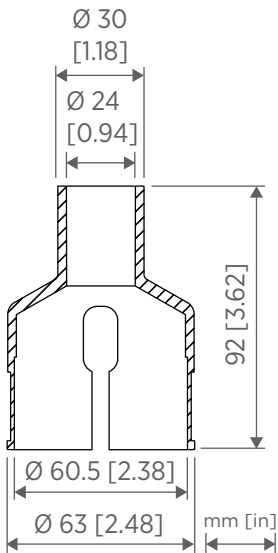


Figure 3 WXT530 mounting kit (212792) dimensions

Figure 4 Mounting accessory (WMSFIX60) for connecting mounting kit (212792) and 60-mm tube



For a full set of specifications, see *Vaisala Weather Transmitter WXT530 Series User Guide*.

3.4 Powering

3.4.1 SOL501/SOL502 specifications

Table 23 SOL501/SOL502 specifications

Property	Description/Value
Nominal voltage	12 VDC
Maximum power	20 W
Voltage at maximum power (Vmpp), typical	18.5 V
Current at maximum power (Impp), typical	1.09 A
Open-circuit voltage	22.6 V
Short-circuit current (Isc), typical	1.19 A
Dimensions (H × W × D), without mounting frame	440 × 350 × 49.6 mm (17.32 × 13.78 × 1.95 in)
Dimensions (H × W × D), including mounting frame	377.5 × 350 × 319.7 mm (14.86 × 13.78 × 12.59 in)
Weight, including mounting frame	4.3 kg (9.5 lb)
Weight, including mounting frame and power supply unit PSU502	7.8 kg (17.2 lb)

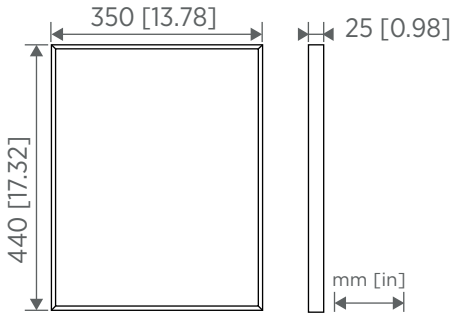


Figure 5 SOL501 dimensions

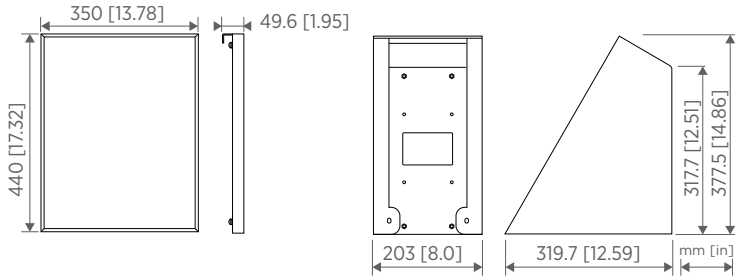


Figure 6 SOL502 dimensions

3.4.2 PSU501 specifications

Table 24 PSU501 specifications

Property	Description/Value
Battery type	Value-regulated lead-acid (VLRA) battery
Input power	100 - 240 VAC 50 - 60 Hz 800 mA
AC (mains) fuse, internal (nonreplaceable)	T 3.15
AC (mains) cable connection	<ul style="list-style-type: none"> Conductor cross section (flexible): 0.75 ... 2.5 mm² (AWG 20 ... 14) Cable lead-through: for 6 ... 12.5 mm (0.24 ... 0.49 in) cable
Nominal output voltage	24 V In backup mode: 10.5 - 15.6 V
Nominal battery capacity	12 VDC 7 Ah
Expected battery lifetime	3 ... 5 years
Operating temperature	-40 ... +55 °C (-40 ... +131 °F)
Operating humidity	0 ... 100 %RH, non-condensing
Operating altitude, maximum	2000 m (6560 ft)
Pollution degree	2
Overvoltage category	II
Dimensions (H × W × L)	244.5 × 164.2 × 101.0 mm (9.63 × 6.46 × 3.98 in)
Weight	3.5 kg (7.7 lb)
IP rating	IP65

Property	Description/Value
Material, enclosure	Polycarbonate

1) *The capacity of the backup battery degrades in cold temperatures.*

Table 25 PSU501 compliance

Test	Standard
EU directives	EMC, LVD, RoHS
Compliance marks	CE, UKCA, RCM
EMC compatibility	IEC / EN / BS EN 61326-1, industrial environment CISPR 32 / EN 55032 / BS EN 55032, Class B FCC 15B
Electrical safety	IEC 61010-1
Cold	IEC 60068-2-1
Dry heat	IEC 60068-2-2
Vibration	IEC 60068-2-6 IEC 60068-2-64
Change of temperature	IEC 60068-2-14
Damp heat, cyclic	IEC 60068-2-30
Rough handling	IEC 60068-2-31
Damp heat	IEC 60068-2-78

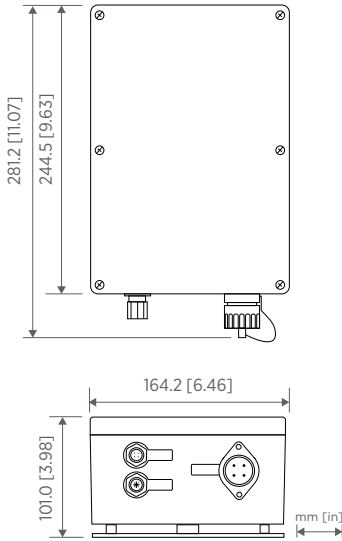


Figure 7 PSU501 dimensions

3.4.3 PSU502 specifications

Table 26 PSU502 specifications

Property	Description/Value
Battery type	Value-regulated lead-acid (VLRA) battery
Input power	15 - 32 VDC Max. 2 A
Nominal battery capacity	12 VDC 7 Ah
Maximum storage time	3 months at room temperature before first-time use
Operating temperature	-40 ... +55 °C (-40 ... +131 °F) ¹⁾
Operating humidity	0 ... 100 %RH, non-condensing
Operating altitude, maximum	2000 m (6560 ft)
Pollution degree	2
Dimensions (H × W × L)	244.5 × 164.2 × 101.0 mm (9.63 × 6.46 × 3.98 in)
Weight	3.5 kg (7.7 lb)
IP rating	IP65

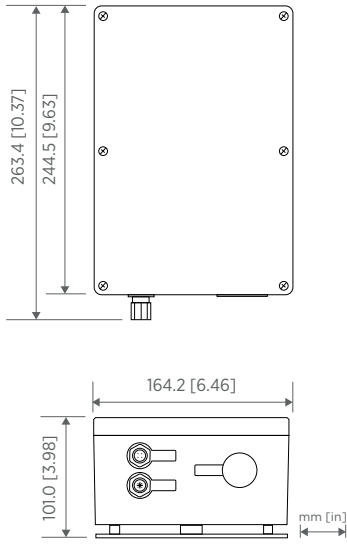
Property	Description/Value
Material, enclosure	Polycarbonate

1) *The capacity of the backup battery degrades in cold temperatures.*

Table 27 PSU502 compliance

Property	Description/Value
EU directives	EMC, LVD, RoHS
Compliance marks	CE, UKCA, RCM
EMC compatibility	IEC / EN / BS EN 61326-1, industrial environment CISPR 32 / EN 55032 / BS EN 55032, Class B FCC 15B
Cold	IEC 60068-2-1
Dry heat	IEC 60068-2-2
Vibration	IEC 60068-2-6 IEC 60068-2-64
Change of temperature	IEC 60068-2-14
Damp heat, cyclic	IEC 60068-2-30
Rough handling	IEC 60068-2-31
Damp heat	IEC 60068-2-78

Figure 8 PSU502 dimensions



Warranty

For standard warranty terms and conditions, see www.vaisala.com/warranty.

Please observe that any such warranty may not be valid in case of damage due to normal wear and tear, exceptional operating conditions, negligent handling or installation, or unauthorized modifications. Please see the applicable supply contract or Conditions of Sale for details of the warranty for each product.

Technical support



Contact Vaisala technical support at helpdesk@vaisala.com. Provide at least the following supporting information as applicable:

- Product name, model, and serial number
- Software/Firmware version
- Name and location of the installation site
- Name and contact information of a technical person who can provide further information on the problem

For more information, see www.vaisala.com/support.

Recycling



Recycle all applicable material.



Follow the statutory regulations for disposing of the product and packaging.

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