



Power Junction Box PJB480



PJB480 with WMT700 on a pole mast

Features

- Provides operational and heating power for WMT700
- Allows heating WMT700 sensor transducers, arms, and body
- Designed for demanding conditions, such as maritime use and cold climates
- IP66 waterproof enclosure
- Robust enclosure of stainless steel

Vaisala Power Junction Box PJB480 provides operational and heating power to Vaisala WINDCAP Ultrasonic Wind Sensor WMT700. PJB480 is designed for demanding conditions, such as maritime use and cold climates.

Prevents Build-up of Ice and Snow

PJB480 is equipped with two 24 VDC power supplies and has the maximum output power of 480 W. It provides power for keeping the WMT700 sensor operational and heated, thus preventing build-up of ice and snow. With PJB480, WMT700 can be fully heated (including sensor transducers, arms, and body) to keep the sensor functional in the harshest and coldest environments. PJB480 supports one WMT700.

Withstands Harsh Weather

PJB480 withstands low temperatures, down to $-55\text{ }^{\circ}\text{C}$ ($-67\text{ }^{\circ}\text{F}$). Its housing is waterproof (IP66) and made of stainless steel. A mounting plate for wall or

bulkhead installation is included in the delivery. PJB480 can also be mounted to a mast using an optional APPK-SET mounting kit.

Meets Maritime Standards

PJB480 is a durable solution for cold climates and demanding maritime conditions; it is compliant with IEC 60945 standards. PJB480 can be used with a standalone WMT700 or with a WMT700 that is part of a Vaisala Automatic Weather Station.

Technical Data

Operating Environment

| | |
|----------------------------|--|
| Operating temperature | -55 ... +55 °C (-67 ... +131 °F) ¹⁾ |
| Storage temperature | -60 ... +70 °C (-76 ... +158 °F) |
| Operating humidity | 0 ... 100 %RH, non-condensing |
| Maximum operating altitude | 2000 m (6 500 ft) |

1) Cold start -40 °C (-40 °F)

Inputs and Outputs

| | |
|----------------------|-----------------|
| Input voltage | 100 ... 240 VAC |
| Input current | 10 A |
| Operating frequency | 50/60 Hz |
| Output voltage | 24 VDC |
| Output current | 16 A |
| Maximum output power | 480 W |
| Nominal output power | 300 W |

Spare Parts and Accessories

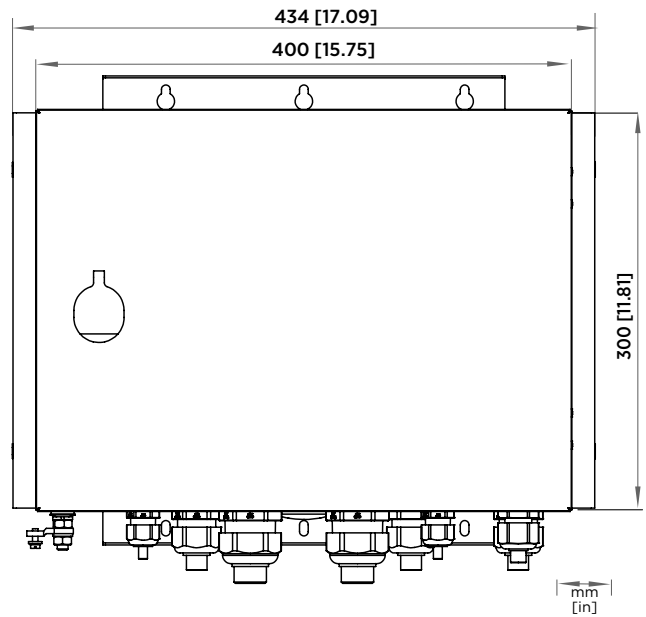
| | |
|--|--|
| Fuse, 2 A, glass tube 5 × 20 mm (0.79 in) | 3595 |
| Surge protector | 254404SP |
| Mounting kit for pole mast, Ø 60 mm (2.36 in) | APPK-SET60 |
| Mounting kit for pole mast, Ø 75 mm (2.95 in) | APPK-SET75 |
| Mounting kit for pole mast, Ø 100 mm (3.94 in) | APPK-SET100 |
| Mounting kit for pole mast, Ø 106 mm (4.17 in) | APPK-SET106 |
| AC (mains) cable | To be purchased separately. Min. 3 × 1.5 mm ² (15 AWG) |

Mechanical Specifications

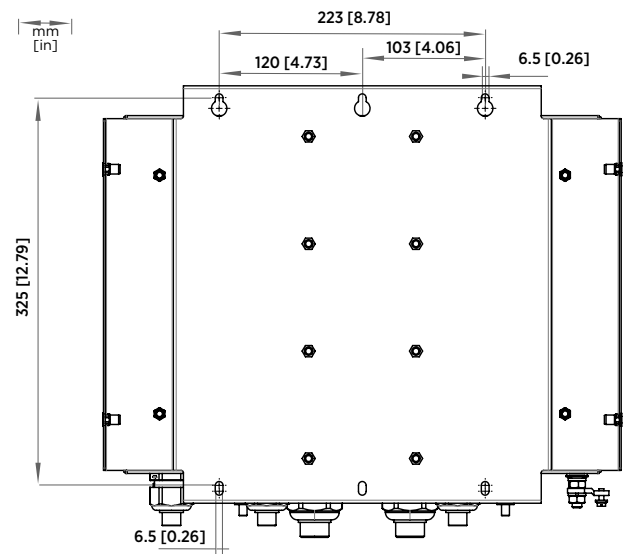
| | |
|--|---|
| Enclosure dimensions (H × W × D) | 300 × 400 × 200 mm (11.81 × 15.75 × 7.87 in) |
| Weight | 14 kg (30 lb) |
| Materials (enclosure and mounting plate) | Stainless steel AISI 316 / EN 1.4404 |
| Coating (enclosure and mounting plate) | Painted white, polyester powder coating RAL9003 |

Environmental Compliance

| | |
|-------------------------|----------------------------|
| Maritime | IEC 60945 |
| Electrical safety | EN/UL/IEC 61010-1 |
| IP rating | IP66 |
| Vibration | IEC 60068-2-6/IEC 60945 |
| Dry heat | IEC 60068-2-2 |
| Damp heat | Cyclic IEC 60068-2-30 |
| Low temperature | IEC 60068-2-1 |
| Corrosion and salt mist | IEC60068-2-52, VDA 621-415 |



PJB480 Dimensions, Front View



PJB480 Dimensions, Back View

EMC Compliance

| | |
|------------|---|
| Immunity | EN/IEC 61326-1 (Industrial Environment) / IEC 60945 |
| Insulation | IEC 60092-504 |
| Emissions | EN55032 / CISPR 32 (Class B) / IEC 60945 |



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