# Produal Proxima® WBU - wireless base unit

Produal Proxima® WBU wireless base unit is designed for Produal wireless network. The base unit supports the following communication protocols: Modbus RTU and Modbus TCP. The base unit is built on the Produal PUMP® platform and can be expanded with additional modules for added functionality.

The base unit settings can be configured with Produal MyTool® Android application which speeds up the commissioning. The device configuration can be saved to Produal MyCloud cloud service by using the application.

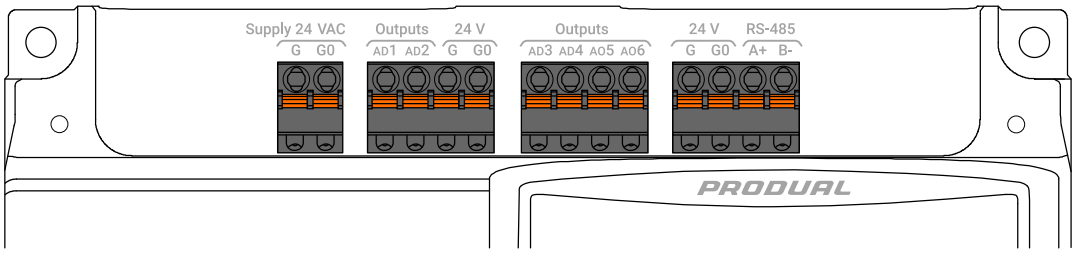
## Technical specifications

| Property | Value |
|---|---|
| Supply | 24 Vac/dc (22...26 V), < 7 VA<br>NOTE **Note:** Only the DC functions work when using DC supply voltage. To get full functionality, use AC supply. |
| Network frequency | 2,4 GHz |
| Network range (maximum distance between devices) | up to 100 m indoors / up to 200 m in open air |
| Network size | up to 100 transmitters<br>NOTE **Note:** The network performance depends on the network structure. When approaching the maximum device count, the network speed will decrease. |
| Inputs | 6 x universal input (NTC 10 / Pt1000 / Resistive / Potential free contact / 0...10 Vdc) |
| Outputs | 6 x 0...10 Vdc / 2...10 Vdc, -0,5...+2 mA |
| Supply output | 2 x 24 Vac, total load < 8 A |
| Communication | Modbus RTU / Modbus TCP |
| | PUMP expansion socket |
| Default Ethernet network settings | |
| IP address | 192.168.1.1 |
| Subnet mask | 255.255.255.0 |
| Commissioning tool | Produal MyTool® GET IT ON Google Play |

| Property | Value |
|---|---|
| Operating conditions | |
| Temperature | -5...50 °C |
| Humidity | 0...90 %rH (non-condensing) |
| Antenna connector | SMA |
| Wiring terminals | 1,5 $mm^2$, spring terminals |
| Mounting | on the wall surface or on 35 mm DIN rail |
| Housing | ABS, IP22 |
| Dimensions (w x h x d) | 186 x 136 x 55 mm |

# Wiring

## Top connectors




*Supply 24 VAC*

| | |
|---|---|
| *G* | 24 Vac/dc supply. |
| *G0* | Ground |

*Outputs*

| | |
|---|---|
| *AD1* | Output 1. 0...10 Vdc (-0,5...+2 mA) output. |
| *AD2* | Output 2. 0...10 Vdc (-0,5...+2 mA) output. |

*24 V*

| | |
|---|---|
| *G* | 24 Vac output. |
| *G0* | Ground |

*Outputs*

| | |
|---|---|
| *AD3* | Output 3. 0...10 Vdc (-0,5...+2 mA) output. |
| *AD4* | Output 5. 0...10 Vdc (-0,5...+2 mA) output. |
| *AO5* | Output 5. 0...10 Vdc (-0,5...+2 mA) output. |
| *AO6* | Output 6. 0...10 Vdc (-0,5...+2 mA) output. |

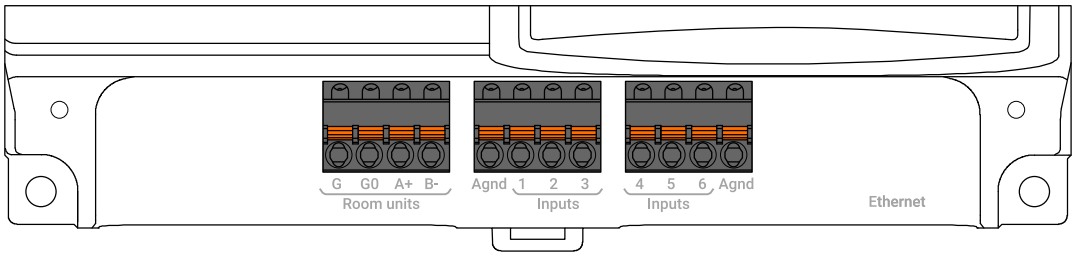
*24 V*

| | |
|---|---|
| *G* | 24 Vac output. |
| *G0* | Ground |

*RS-485*

| | |
|---|---|
| *A+* | RS-485 bus connection for Modbus RTU. |
| *B-* | |

## Bottom connectors




*Room units*

| | |
|---|---|
| *G* | Not in use. |
| *G0* | |
| *A+* | |
| *B-* | |

*Inputs*

| | |
|---|---|
| *Agnd* | 0 V |
| *1* | Input 1. NTC 10 / Pt1000 / Resistive / Potential free contact / 0...10 Vdc |
| *2* | Input 2. NTC 10 / Pt1000 / Resistive / Potential free contact / 0...10 Vdc |
| *3* | Input 3. NTC 10 / Pt1000 / Resistive / Potential free contact / 0...10 Vdc |
| *4* | Input 4. NTC 10 / Pt1000 / Resistive / Potential free contact / 0...10 Vdc |
| *5* | Input 5. NTC 10 / Pt1000 / Resistive / Potential free contact / 0...10 Vdc |
| *6* | Input 6. NTC 10 / Pt1000 / Resistive / Potential free contact / 0...10 Vdc |
| *Agnd* | 0 V |

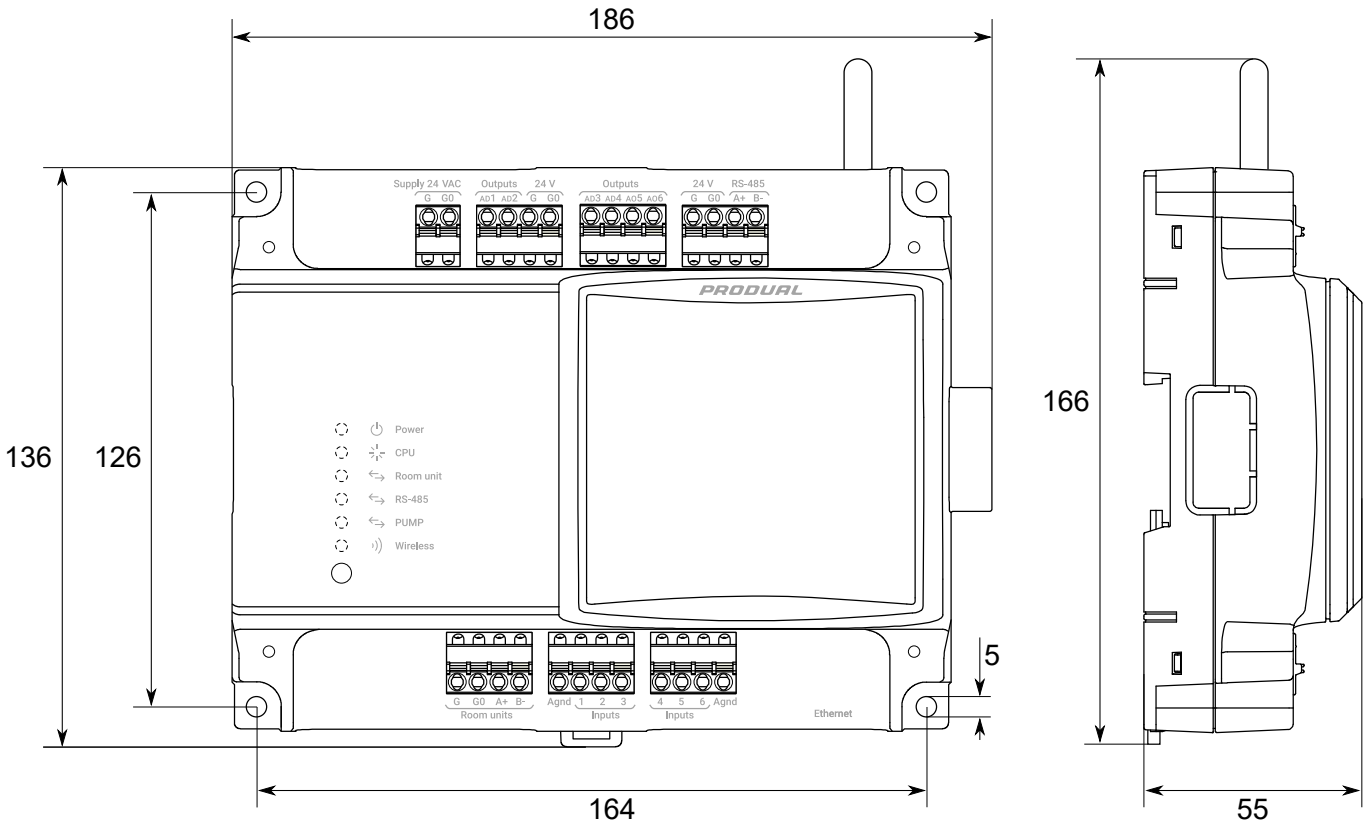
*Ethernet*

| | |
|---|---|
| *Ethernet* | RJ-45 connector for Modbus TCP. |

# Ordering information

| | Type | Product number | Description |
|---|---|---|---|
| | WBU | 54011W0000 | Wireless base unit, white |
| | WA-AS1 | 5401900010 | extension cable and base for WBU antenna, 3 m cable |
| | CUCC | 5201010400 | Cable covers (includes two covers and four fixing screws) |

## Dimensions




## Supported standards and directives

| Standard | Description |
|---|---|
| 2014/30/EU | Electromagnetic Compatibility (EMC). |
| 2014/35/EU | Low Voltage Directive (LVD) |
| 2014/53/EU | Radio Equipment Directive (RED) |
| 2011/65/EU | Restriction of Hazardous Substances (RoHS2) Directive. |
| (EU) 2015/863 | Commission Delegated Directive, amending Annex II to Directive 2011/65/EU. |
| 2000/299/EC | Classification of radio equipment: Class 1, Wideband data transmission systems (Subclass 22) |
| EN 60950 | Safety of information technology equipment |
| EN 300 328 V2.1.1 | Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of directive 2014/53/EU |
| EN 301 489-1 V2.1.1 | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements. |
| EN 301 489-17 V2.1.1 | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission systems |
| EN 61000-6-2:2006 | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments. |
| EN 61000-6-3:2007/ A1:2011 | Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments. |