# WAGO

# Communication Modules Pro2 Series

## Overview

WAGO Pro2 communication modules easily snap into place as an add-on to WAGO Pro2 power supplies. These modules are available for various communication protocols with their respective communication ports, allowing connectivity to PLCs for programming and monitoring. Connectivity to modules also provides accessibility to features and data from the power supplies.

## Features

• Snaps on to a WAGO Pro2 Power Supply
• Modbus RTU, EtherNet/IP, Modbus TCP/IP UDP/IP or IO-Link v1.1
• 2-year warranty

**2789-9015** | **2789-9023** | **2789-9052** | **2789-9080**

| Communication Modules - Pro2 Series | | | | | | | |
|---|---|---|---|---|---|---|---|
| Part Number | Price | Port Protocol | Number of Ports | Communication Port | Port Speed | Requires | Drawing Link |
| 2789-9015 * | $69.00 | Modbus RTU | 2 | (2) RS-485 (RJ45) | 4.8 to 115.2k baud | WAGO Pro2 power supply and terminating resistor 2789-9915 | PDF |
| 2789-9023 | $98.00 | EtherNet/IP | 2 | (2) Ethernet 10/100Base-T (RJ45) | 10/100 Mbps auto-detect | WAGO Pro2 power supply | PDF |
| 2789-9052 * | $98.00 | Modbus TCP/IP UDP/IP | 2 | (2) Ethernet 10/100Base-T (RJ45) | 10/100 Mbps auto-detect | WAGO Pro2 power supply | PDF |
| 2789-9080 | $69.00 | IO-Link Class A Device | 1 | (1) 3-position removable terminal | 230.4k baud IO-Link COM3 | WAGO Pro2 power supply | PDF |

**\* Firmware on the Pro2 Power Supply must be version 01.04 or higher.**

## Terminating Resistor For Use With 2789-9015

| Terminating Resistor - Pro2 Series | | | | | | |
|---|---|---|---|---|---|---|
| Part Number | Price | Resistance | Connection | Weight | For Use With | Drawing Link |
| 2789-9915 | $37.00 | 120Ω | RJ45 | 35g [1.23 oz] | 2789-9015 | PDF |

**2789-9915**

## 8-Pin RJ45
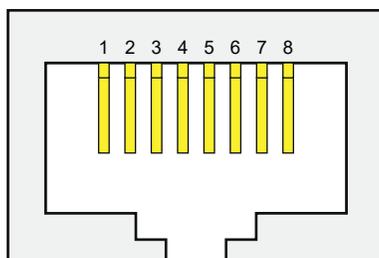
| 8-Pin RJ45 Pin Out | |
|---|---|
| Pin | Description |
| 4 | Contact "A" (D+/D1) |
| 5 | Contact "B" (D-/D0) |
| 8 | Contact "GND" |

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# Pro2 Series

| Communication Modules - Pro2 Series Specifications | | | | |
|---|---|---|---|---|
| **Part Number** | *2789-9015* | *2789-9023* | *2789-9052* | *2789-9080* |
| **Communication** | Modbus RTU (RS-485) | EtherNet/IP - Protocols: HTTP(S), BootP, DHCP, SNTP, MQTT | Modbus (TCP, UDP) Ethernet Protocols: HTTP(S), BootP, DHCP, SNTP | IO-Link v1.1 |
| **Nominal Input Voltage** | 5VDC (SELV) | | | 24VDC (SELV; via IO-Link Master) |
| **Input Voltage Range** | 4.5 to 5.5 VDC (SELV) | — | | 18 to 30VDC (SELV; via IO-Link Master) |
| **Input Current** | ≤ 0.04 A | ≤ 250mA | 210mA | ≤ 15mA |
| **Power Loss (max.)** | 0.22 W | — | 1.1 W | — |
| **Operating Temperature** | -25 to 70°C [-13 to 158°F] | -40 to 55°C [-40 to 131°F] | | -25 to 70°C [-13 to 158°F] |
| **Storage Temperature** | -40 to 85°C [-40 to 185°F] | -40 to 85°C [-40 to 185°F] | | -40 to 85°C [-40 to 185°F] |
| **Relative Humidity** | 5 to 95% (no condensation) | | | 5 to 96% (no condensation) |
| **LED Indicator** | 1 LED PWR (Green) 1 LED RxD (Yellow) 1 LED TxD (Yellow) | 1 ERR LED (Red) 1 COM OK LED (Green) 1 LED LNK/ACTx (Green) 1 LED SPEEDx (Orange) | | 1 COM OK LED (Green) 1 ERR LED (Red) |
| **Baud Rate** | 4.8 to 115.2 kBd | 10/100 Mbps auto-detect | | 230.4k baud |
| **Number of Devices (max.)** | 247 | — | — | — |
| **Test Voltage** | 2 kVAC; 50Hz; 1 min | 0.775 kVAC; 50Hz; 1 min | 0.775 kVAC; 50Hz; 1 min | — |
| **Test Voltage (input/output/shield)** | 1 kVAC; 50Hz; 1 min | — | | — |
| **Protection Class** | III | | | |
| **Degree of Protection** | IP20 per EN 60529 | | | |
| **Pollution Degree** | 2 (according to IEC/EN 60664-1) | | | |
| **Connector** | (2) RJ45 | (2) Ethernet 10/100Base-T (RJ45) | | Push-in CAGE CLAMP ® Solid /Fine conductor 0.08 to 2.5 mm² / 28 to12 AWG Strip length: 8 to 9 mm [0.31 to 0.35 in] Cable length max: 20m [65.61 ft] (IO-Link) |
| **Transmission Medium** | Twisted pair, shielded copper cable | Ethernet: Twisted pair S-UTP; 100Ω; Cat. 5 | | |
| **Mounting** | Only vertical on a WAGO Pro2 Power Supply | | | |
| **Weight** | 35g [1.23 oz] | 45g [1.58 oz] | 45g [1.58 oz] | 35g [1.23 oz] |
| **Agency Approval** | CE, UL File E175199, UL Haz File E198726 | | | |

**To obtain the most current agency approval information, see the Agency Approval Compliance & Certifications Checklist section on the specific part number's web page.**

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## Mounting/Removal



**Mounting**



**Removal**
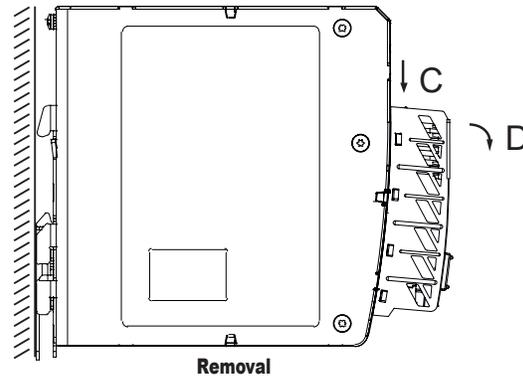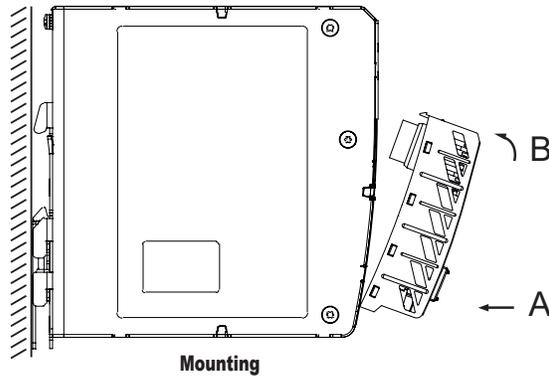
- Remove the cover for the communication interface from the WAGO Pro2 Power Supply you are using.
- Insert the bottom latches of the communication module into the bottom mounting slots of the WAGO Pro2 Power Supply [A].
- Slide the communication module toward the communication interface [B] until the top latches catch in the top mounting slots.
- Check that the communication module has correctly latched in position.

- Press in on the top locking tab of the communication module [C].
- Swing the device out to remove it from the WAGO Power Supply Pro2 [D].