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							
Part Number	Price	Port Protocol	Number of Ports	Communication Port	Port Speed	Requires	Drawing Link
2789-9015 *	$6168:	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	$06169:	EtherNet/IP	2	(2) Ethernet 10/100Base-T (RJ45)	10/100 Mbps auto-detect	WAGO Pro2 power supply	PDF
2789-9052 *	$0616a:	Modbus TCP/IP UDP/IP	2	(2) Ethernet 10/100Base-T (RJ45)	10/100 Mbps auto-detect	WAGO Pro2 power supply	PDF
2789-9080	$616b:	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.

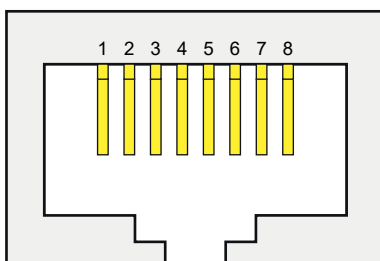## Terminating Resistor For Use With 2789-9015

Terminating Resistor						
Part Number	Price	Resistance	Connection	Weight	For Use With	Drawing Link
2789-9915	$616c:	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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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
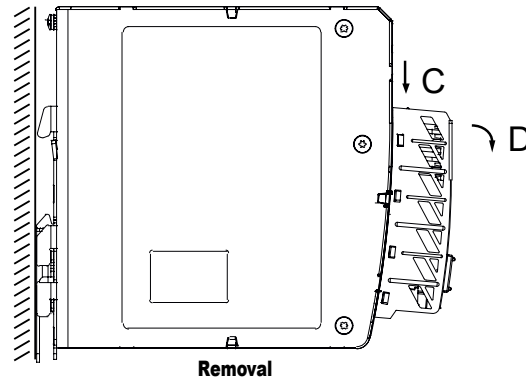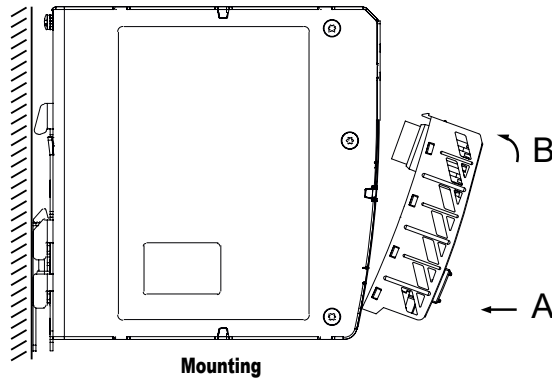
- Remove the cover for the communication interface from the WAGO Pro2 Power Supply you are using.
- Insert the bottom latches of the communication module into the bottom mounting slots of the WAGO Pro2 Power Supply [A].
- Slide the communication module toward the communication interface [B] until the 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].