

Data Sheet | Item Number: 2789-9023

Communication module; EtherNet/IP; MQTT Pub/Sub; communication capability

<https://www.wago.com/2789-9023>



Features:

- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- EtherNet/IP™ + MQTT
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Integrated ETHERNET switch for convenient wiring
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips



Technical data			
Input		Signaling and Communication	
Nominal input voltage $U_{I\,nom}$	5 VDC (SELV)	Signaling	1 x ERR LED (red) 1 x COM OK LED (green) 1 x LED LNK/ACTx (green) 1 x LED SPEEDx (orange)
Nominal input current at U_N	250 mA (max.)	Communications	EtherNet/IP™
		ETHERNET protocols	HTTP(S) BootP DHCP SNTP MQTT
		Configuration options	Web-Based Management
		Visualization	Web-Visu
		Transmission rate	100 MBd (ETHERNET: 10/100 Mbit/s)
		Transmission medium (communication/fieldbus)	ETHERNET: Twisted pair S-UTP; 100 Ω; Cat. 5

Safety and protection	
Test voltage (fieldbus)	0.775 kVAC; 50 Hz; 1 min
Protection class	III
Insulation type	Functional insulation
Protection type	IP20; per EN 60529
Overvoltage category	III
Pollution degree	2

Connection Data			
Cable length (max.)	100 m	Connection 1	
Transmission medium	ETHERNET: Twisted pair S-UTP; 100 Ω; Cat. 5	Connection type	EtherNet/IP™
		Pluggable connector	2 x RJ-45

Physical data	
Width	35 mm / 1.378 inches
Height	80 mm / 3.15 inches
Depth	22 mm / 0.866 inches
Note (dimensions)	Depth in mounted state

Mechanical data	
Mounting type	Snaps onto the communication interface (X4) of a Pro 2 Power Supply

Material data	
Fire load	0 MJ
Weight	45 g



Environmental requirements	
Ambient temperature (operation)	-40 ... +55 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	5000 m

Standards and Specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201

Commercial data	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
Customs tariff number	85176200000

Product Classification	
UNSPSC	32151705
ETIM 9.0	EC002498
ETIM 10.0	EC002498
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(c)-I
SCIP notification number (Austria)	610724ca-6d43-4775-a239-f42cf7fff0f6
SCIP notification number (Belgium)	b03778b3-1f97-431b-a5c0-5d7f40e8b00a
SCIP notification number (Bulgaria)	ef1fcf8a-5ec1-4469-a961-dd2347b1a519
SCIP notification number (Czech Republic)	b5b2e0fa-d027-4019-9de7-50ea75318d9a
SCIP notification number (Denmark)	b284f94b-ca8d-478e-bc10-dcdf56faf2d2
SCIP notification number (Finland)	ccf5126a-3da7-40bd-8ed6-917548faec3a
SCIP notification number (France)	1b1e1d0a-9f61-4953-b924-4f552eb0f8f4
SCIP notification number (Germany)	4b998730-2b5c-4104-bd25-25964afdf41c
SCIP notification number (Hungary)	8e3ee64f-c1c7-4d6c-b515-82a1e3bf5246
SCIP notification number (Italy)	d5a825b3-dc6a-44ad-8f72-7be17aeba5c4
SCIP notification number (Netherlands)	9b08ad25-45f8-4cf5-800b-71fdfa69059c
SCIP notification number (Poland)	d658c93c-ceb7-4fd3-86f9-92208bc5f4bd
SCIP notification number (Romania)	a7297ef4-bab4-4622-a392-4e5d27cbcabd
SCIP notification number (Sweden)	882f52ce-f816-47e7-9db4-f791207000f1

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

		
Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 2789-9023	

Documentation

Manual				Instruction Leaflet			
Product Manual Communication Module; EtherNet/IP; communication capability	V 1.1.0 19.07.2023	pdf 13343.63 KB		EtherNet/IP Communication module	V 1.0.0 22.11.2022	pdf 3386.13 KB	

CAD/CAE-Data

CAD data
2D/3D Models 2789-9023

Runtime Software

Firmware			
2789-9023; Pro 2 Kom-munikationsmodul Ether-Net/IP	V 1.34 24.01.2024	zip 428.27 KB	

Libraries

Device Description File			
Device description file 2789-9023 1.0	1.0	txt 9.97 KB	
Device description file 2789-9023 1.1	1.1	txt 9.97 KB	

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marker carrier



[Item No.: 2789-1233](#)
Marker carrier; for WMB or marking strips;
Length: 33 mm

1.1.2 Power supply

1.1.2.1 Power Supply



[Item No.: 2787-2134](#)
Power supply; Pro 2; 1-phase; 12 VDC out-put voltage; 10 A output current; TopBoost + PowerBoost; communication capability



[Item No.: 2787-2146/000-070](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 10 A output current; TopBoost + PowerBoost; Protection Coating; communi-cation capability



[Item No.: 2787-2147/000-070](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 20 A output current; TopBoost + PowerBoost; Protection Coating; communi-cation capability



[Item No.: 2787-3448](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 40 A output current; TopBoost + PowerBoost; Input voltage range 200 ... 240 VAC; communication capability; ORing



[Item No.: 2787-2135](#)
Power supply; Pro 2; 1-phase; 12 VDC out-put voltage; 15 A output current; TopBoost + PowerBoost; communication capability



[Item No.: 2787-2147](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 20 A output current; TopBoost + PowerBoost; communication capability



[Item No.: 2787-2448](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 40 A output current; TopBoost + PowerBoost; communication capability; Input voltage range: 200 ... 240 VAC



[Item No.: 2787-2448/000-070](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 40 A output current; TopBoost + PowerBoost; Protection Coating; commu-nication capability; Input voltage range: 200 ... 240 VAC



[Item No.: 2787-2146](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 10 A output current; TopBoost + PowerBoost; communication capability



[Item No.: 2787-2147/000-030](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 20 A output current; TopBoost + PowerBoost; communication capability



[Item No.: 2787-2448/000-030](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 20 A output current; TopBoost + PowerBoost; communication capability; Input voltage range: 200 ... 240 VAC



[Item No.: 2787-2144](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 5 A output current; TopBoost + PowerBoost; communication capability



[Item No.: 2787-2146/000-030](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 10 A output current; TopBoost + PowerBoost; communication capability



[Item No.: 2787-3147/000-030](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 20 A output current; TopBoost + PowerBoost; communication capability; Redundancy



[Item No.: 2787-3448/000-030](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 40 A output current; TopBoost + PowerBoost; communication capability; Redundancy; Input voltage range: 200 ... 240 VAC



[Item No.: 2787-2144/000-030](#)
Power supply; Pro 2; 1-phase; 24 VDC out-put voltage; 5 A output current; TopBoost + PowerBoost; communication capability

1.1.2.1 Power Supply

**Item No.: 2787-2144/000-070**

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; Protection Coating; communication capability

Item No.: 2787-2157

Power supply; Pro 2; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-2154

Power supply; Pro 2; 1-phase; 48 VDC output voltage; 2.5 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-2346

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

**Item No.: 2787-2346/000-030**

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-3346/000-030

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-2346/000-070

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Protection Coating; communication capability

Item No.: 2787-2347

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability

**Item No.: 2787-2347/000-030**

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-3347/000-030

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability; Redundancy

Item No.: 2787-2347/000-070

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; Protection Coating; communication capability

Item No.: 2787-2348

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; communication capability

**Item No.: 2787-2348/000-030**

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-3348/000-030

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; communication capability; Redundancy

Item No.: 2787-2348/000-070

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; Protection Coating; communication capability

Item No.: 2787-2344

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; communication capability

**Item No.: 2787-2344/000-030**

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-2344/000-070

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; Protection Coating; communication capability

Item No.: 2787-2357

Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-2358

Power supply; Pro 2; 3-phase; 48 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability

**Item No.: 2787-3347**

Power supply; Pro 2; Redundancy; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-3348

Power supply; Pro 2; Redundancy; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; communication capability

Item No.: 2787-3147

Stromversorgung; Pro 2; 1-phasig; Ausgangsspannung DC 24 V; Ausgangsstrom 20 A; TopBoost + PowerBoost; kommunikationsfähig; ORing

Item No.: 2787-2147/000-040

Stromversorgung; Pro 2; 1-phasig; Ausgangsspannung DC 24 V; Ausgangsstrom 20 A; TopBoost + PowerBoost; Schutzlackierung; kommunikationsfähig

**Item No.: 2787-2448/000-040**

Stromversorgung; Pro 2; 1-phasig; Ausgangsspannung DC 24 V; Ausgangsstrom 40 A; TopBoost + PowerBoost; Schutzlackierung; kommunikationsfähig; Eingangsnennspannung AC 200 ... 240 V

Item No.: 2787-2144/000-040

Stromversorgung; Pro 2; 1-phasig; Ausgangsspannung DC 24 V; Ausgangsstrom 5 A; TopBoost + PowerBoost; Schutzlackierung; kommunikationsfähig

Item No.: 2787-3146/000-030

Switched-mode power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability; Redundancy