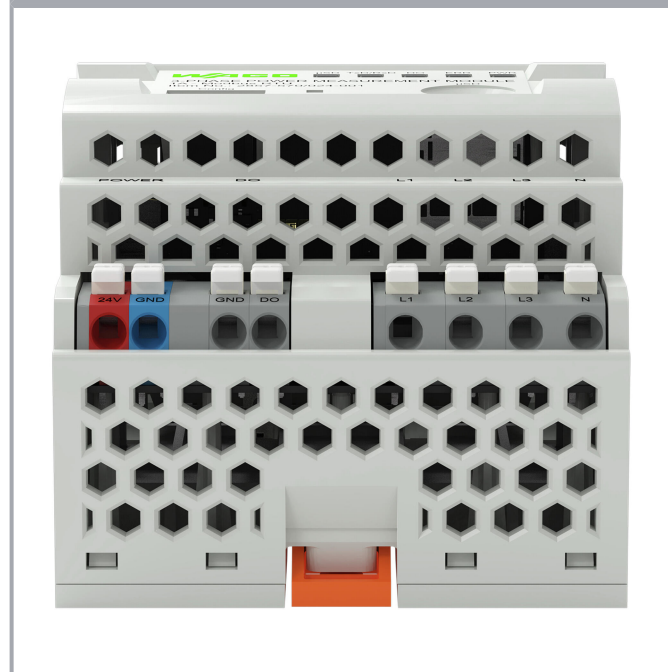
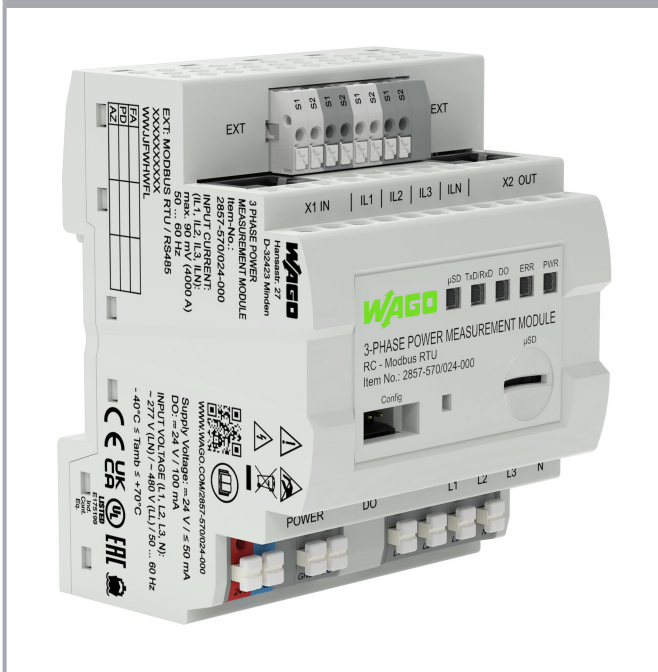
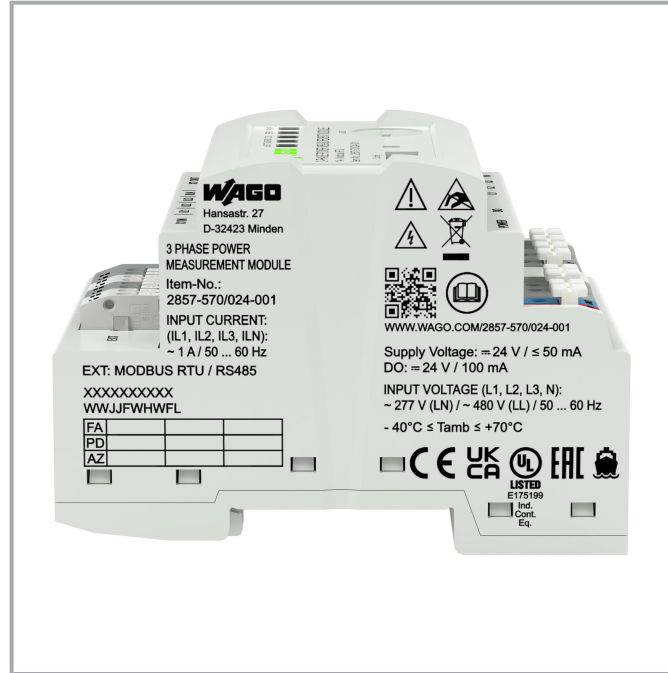
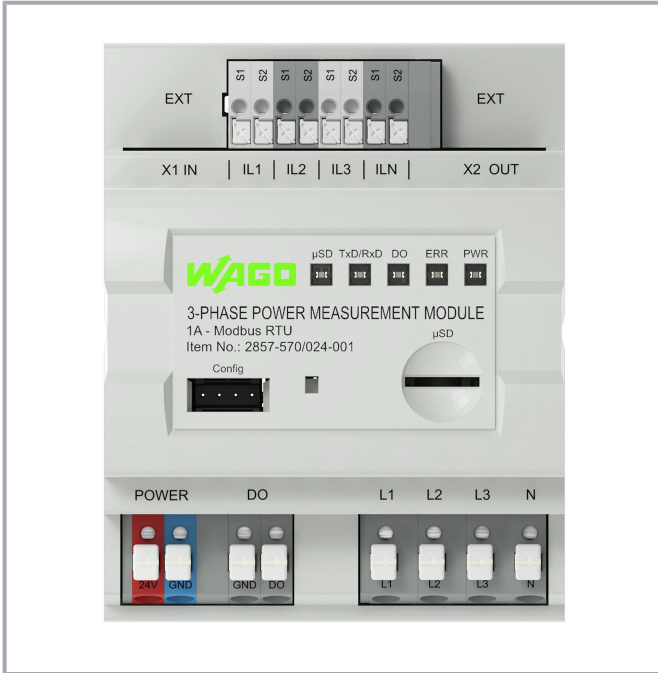


Data sheet | Item number: 2857-570/024-001

3-Phase Power Measurement Module; 3x277/480 V/1 A; Modbus RTU;  
Digital output; Configuration via software; Supply voltage: 24 VDC



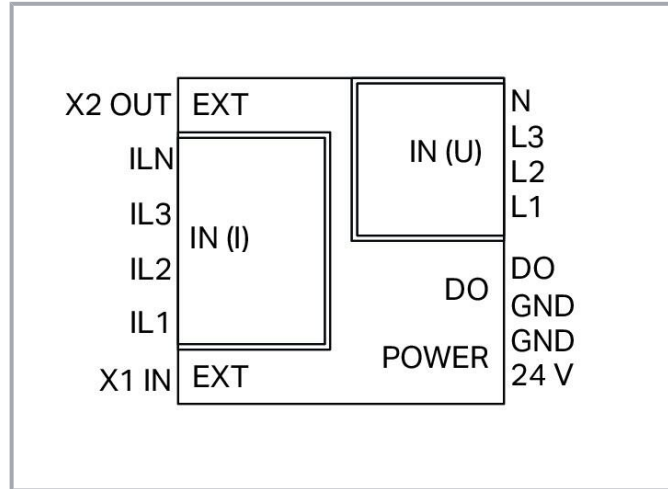
[www.wago.com/2857-570/024-001](http://www.wago.com/2857-570/024-001)



Subject to changes. Please also observe the further product documentation!

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## Item description

### Short description:

WAGO's 3-Phase Power Measurement Module in a DIN-rail-mount enclosure measures electrical data in three-phase supply networks – remotely from the control level.

Measured variables such as active/apparent/reactive power, energy consumption, power factor, phase angle and frequency can be accessed via Modbus<sup>®</sup> interface. In addition, the measured variables can be stored on a microSD card.

### Features:

- Current measurement via 1A current transformer
- Mobile measurement and storage of measured values on microSD card
- Configuration and display of measured values during operation via configuration interface
- Compact device in DIN-rail-mount enclosure saves space used for building technology
- Communication of measured values via Modbus<sup>®</sup> interface
- Configurable digital signal output as pulse output

## Data

### Notes

Note	Additional setting options via the WAGO Interface Configuration Software
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Subject to changes. Please also observe the further product documentation!

## Technical data

### Configuration

Configuration options	WAGO Interface Configuration Software
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### Input

Input signal type	Voltage Current RTD sensors
Network configuration	3-phase power measurement with N-conductor (4-conductor) 3-phase power measurement without N-conductor (3-conductor)
Input signal (voltage)	AC 277 V ( $U_{LN}$ ); AC 480 V ( $U_{LL}$ )
Input signal (current)	AC 1 A (current transformer)
Frequency range	50 ... 60 Hz (Harmonics analysis: 0 ... 3.3 kHz)
Input resistance (current input)	22 m $\Omega$
Input resistance (voltage input)	1.5 M $\Omega$
Input current (max.)	1 AAC
Response threshold	10 mA
Resolution (current)	10 mA

### Output Modbus

Number of devices (max.)	32
Addressing	Via interface configuration software
Connector	2 x RJ-45 (daisy chain configuration)

### Output (digital)

Switching voltage (DO) max.	Supply voltage applied
Continuous current (DO) max.	100 mA (no internal restriction)
Configurable functions (DO)	Threshold value switch Pulse output (S0 interface)

### Communication

Communication	Modbus <sup>®</sup> RTU
Interface	RS-485 (2-wire) via RJ-45
Number of devices (max.)	32
Addressing	Via interface configuration software

Subject to changes. Please also observe the further product documentation!



## Signal Processing

Measurement method	True RMS measurement (measured value acquisition with 8 kHz)
Measured variables (calculated)	Line-to-line voltage Outputs Energy sources Power factors Mains frequency Harmonics analysis (up to 41st harmonic) Total harmonic distortion (THD)
Limit frequency	15.9 kHz
Type of memory card	WAGO 758-879/000-3102 (microSD; 2 GB)

## Measurement Error

Transmission error (max.)	≤ 0.5 % for current and voltage (of the full scale value)
---------------------------	---

## Supply

Power supply type	24 VDC
Nominal supply voltage $U_S$	DC 24 V (SELV)
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 50 mA (+ $I_{DO}$ )

## Safety and protection

Rated voltage	600 V
Overvoltage category	III
Pollution degree	2
Safe isolation	Input/supply and communication per EN 61010-1
Requirement (N input)	Neutral conductors as part of the mains circuit, shall be considered hazardous live.
$IL_x$ input requirement	Coils/converters with basic insulation
Protection type	IP20

## Test voltage

Test voltage (input/output/supply)	AC 3.51 kV; 50 Hz; 1 min
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## Connection data

Connection type 1	Voltage
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Subject to changes. Please also observe the further product documentation!



Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.25 ... 2.5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor	0.25 ... 2.5 mm <sup>2</sup> / 24 ... 14 AWG
Strip length	10 ... 11 mm / 0.39 ... 0.43 inches
Connection type 2	Current/Power supply/DO
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 805 Series
Solid conductor 2	0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Fine-stranded conductor 2	0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Strip length 2	9 ... 10 mm / 0.35 ... 0.39 inches
Connection type 3	Modbus® communication
Connector	2 x RJ-45 (daisy chain configuration)

### Physical data

Width	72 mm / 2.835 inches
Height	90 mm / 3.54 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches

### Mechanical Data

Mounting type	DIN-35 rail
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### Material Data

Fire load	0.044 MJ
Weight	115.5 g

### Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 95 % (non-condensing)

### Standards and specifications

Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-3

Subject to changes. Please also observe the further product documentation!

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Standards/specifications	EN 61010-1
--------------------------	------------

### Commercial data



eCl@ss 10.0	27-21-01-24
eCl@ss 9.0	27-21-01-24
ETIM 8.0	EC002476
ETIM 7.0	EC002476
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4055143827539
Customs tariff number	85437090300

### Environmental Product Compliance


RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011	EAC RU C-DE.AM02.B.00122/19

#### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

#### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	DNV GL	-	TAA00001ZY

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## Optional accessories

### Mounting

Current transformer terminal block

**Item no.: 2007-8874**Compact terminal block; for current and voltage transformers; 6,00 mm<sup>2</sup>; multicoloured[www.wago.com/2007-8874](http://www.wago.com/2007-8874)**Item no.: 2007-8877**Compact terminal block; for current transformer circuit; 6,00 mm<sup>2</sup>; multicoloured[www.wago.com/2007-8877](http://www.wago.com/2007-8877)

### Potential distribution

Current and voltage tap

**Item no.: 855-951/250-000**Current and voltage tap up to 95 mm<sup>2</sup>; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused[www.wago.com/855-951/250-000](http://www.wago.com/855-951/250-000)**Item no.: 855-501/150-000**Current and voltage tap up to 50 mm<sup>2</sup>; Primary rated current: 150 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused[www.wago.com/855-501/150-000](http://www.wago.com/855-501/150-000)**Item no.: 855-1851/350-000**Current and voltage tap up to 185 mm<sup>2</sup>; Primary rated current: 350 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused[www.wago.com/855-1851/350-000](http://www.wago.com/855-1851/350-000)

### Communication

Communication cable

**Item no.: 750-923**

Configuration cable; USB connector; Length: 2.5 m

[www.wago.com/750-923](http://www.wago.com/750-923)

### Current transformers

Split-core current transformer

**Item no.: 855-4101/200-001**

Split-core current transformer; Primary rated current: 200 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1; Cable length: 3 m

[www.wago.com/855-4101/200-001](http://www.wago.com/855-4101/200-001)**Item no.: 855-4101/250-001**

Split-core current transformer; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1; Cable length: 3 m

[www.wago.com/855-4101/250-001](http://www.wago.com/855-4101/250-001)

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	<b>Item no.: 855-4101/400-001</b> Split-core current transformer; Primary rated current: 400 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1; Cable length: 3 m	<a href="http://www.wago.com/855-4101/400-001">www.wago.com/855-4101/400-001</a>
	<b>Item no.: 855-5001/1000-000</b> Split-core current transformer; Primary rated current: 1000 A; Secondary rated current: 1 A; Rated power: 0.5 VA; Accuracy class: 0.5; Cable length: 5 m	<a href="http://www.wago.com/855-5001/1000-000">www.wago.com/855-5001/1000-000</a>
	<b>Item no.: 855-5001/250-001</b> Split-core current transformer; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 0.5 VA; Accuracy class: 1; Cable length: 5 m	<a href="http://www.wago.com/855-5001/250-001">www.wago.com/855-5001/250-001</a>
	<b>Item no.: 855-5001/400-000</b> Split-core current transformer; Primary rated current: 400 A; Secondary rated current: 1 A; Rated power: 0.5 VA; Accuracy class: 0.5; Cable length: 5 m	<a href="http://www.wago.com/855-5001/400-000">www.wago.com/855-5001/400-000</a>
	<b>Item no.: 855-3001/200-001</b> Split-core current transformer; Primary rated current: 200 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1; Cable length: 3 m	<a href="http://www.wago.com/855-3001/200-001">www.wago.com/855-3001/200-001</a>
	<b>Item no.: 855-3001/250-001</b> Split-core current transformer; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1; Cable length: 3 m	<a href="http://www.wago.com/855-3001/250-001">www.wago.com/855-3001/250-001</a>
	<b>Item no.: 855-3001/060-003</b> Split-core current transformer; Primary rated current: 60 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 3; Cable length: 3 m	<a href="http://www.wago.com/855-3001/060-003">www.wago.com/855-3001/060-003</a>
	<b>Item no.: 855-5001/600-000</b> Split-core current transformer; Primary rated current: 600 A; Secondary rated current: 1 A; Rated power: 0.5 VA; Accuracy class: 0.5; Cable length: 5 m	<a href="http://www.wago.com/855-5001/600-000">www.wago.com/855-5001/600-000</a>
	<b>Item no.: 855-5101/1000-000</b> Split-core current transformer; Primary rated current: 1000 A; Secondary rated current: 1 A; Rated power: 0.5 VA; Accuracy class: 0.5; Cable length: 5 m	<a href="http://www.wago.com/855-5101/1000-000">www.wago.com/855-5101/1000-000</a>
	<b>Item no.: 855-4001/100-001</b> Split-core current transformer; Primary rated current: 100 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1; Cable length: 3 m	<a href="http://www.wago.com/855-4001/100-001">www.wago.com/855-4001/100-001</a>
	<b>Item no.: 855-4001/150-001</b> Split-core current transformer; Primary rated current: 150 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1; Cable length: 3 m	<a href="http://www.wago.com/855-4001/150-001">www.wago.com/855-4001/150-001</a>
	<b>Item no.: 855-4001/200-001</b> Split-core current transformer; Primary rated current: 200 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; Cable length: 3 m	<a href="http://www.wago.com/855-4001/200-001">www.wago.com/855-4001/200-001</a>

**Item no.: 855-3001/100-003**

Subject to changes. Please also observe the further product documentation!





Split-core current transformer; Primary rated current: 100 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 3; Cable length: 3 m

[www.wago.com/855-301/100-003](http://www.wago.com/855-301/100-003)

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Plug-in current transformer

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**Item no.: 855-301/075-201**

Plug-in current transformer; Primary rated current: 75 A; Secondary rated current: 1 A; Rated power: 2.5 VA; Accuracy class: 1

[www.wago.com/855-301/075-201](http://www.wago.com/855-301/075-201)



**Item no.: 855-301/150-501**

Plug-in current transformer; Primary rated current: 150 A; Secondary rated current: 1 A; Rated power: 5 VA; Accuracy class: 1

[www.wago.com/855-301/150-501](http://www.wago.com/855-301/150-501)



**Item no.: 855-301/200-501**

Plug-in current transformer; Primary rated current: 200 A; Secondary rated current: 1 A; Rated power: 5 VA; Accuracy class: 1

[www.wago.com/855-301/200-501](http://www.wago.com/855-301/200-501)



**Item no.: 855-301/400-1001**

Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 1 A; Rated power: 10 VA; Accuracy class: 1

[www.wago.com/855-301/400-1001](http://www.wago.com/855-301/400-1001)



**Item no.: 855-301/050-103**

Plug-in current transformer; Primary rated current: 50 A; Secondary rated current: 1 A; Rated power: 1.25 VA; Accuracy class: 3

[www.wago.com/855-301/050-103](http://www.wago.com/855-301/050-103)



**Item no.: 855-301/100-201**

Plug-in current transformer; Primary rated current: 100 A; Secondary rated current: 1 A; Rated power: 2.5 VA; Accuracy class: 1

[www.wago.com/855-301/100-201](http://www.wago.com/855-301/100-201)



**Item no.: 855-301/250-501**

Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 5 VA; Accuracy class: 1

[www.wago.com/855-301/250-501](http://www.wago.com/855-301/250-501)



**Item no.: 855-301/600-1001**

Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 1 A; Rated power: 10 VA; Accuracy class: 1

[www.wago.com/855-301/600-1001](http://www.wago.com/855-301/600-1001)



**Item no.: 855-801/2000-1001**

Plug-in current transformer; Primary rated current: 2000 A; Secondary rated current: 1 A; Rated power: 10 VA; Accuracy class: 1

[www.wago.com/855-801/2000-1001](http://www.wago.com/855-801/2000-1001)



**Item no.: 855-2701/035-001**

Plug-in current transformer; Primary rated current: 35 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1

[www.wago.com/855-2701/035-001](http://www.wago.com/855-2701/035-001)

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**Item no.: 855-1001/2500-1001**

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Plug-in current transformer; Primary rated current: 2500 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-1001/2500-1001](http://www.wago.com/855-1001/2500-1001)  
10 VA; Accuracy class: 1



**Item no.: 855-301/060-101**  
Plug-in current transformer; Primary rated current: 60 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-301/060-101](http://www.wago.com/855-301/060-101)  
1.25 VA; Accuracy class: 1



**Item no.: 855-2701/064-001**  
Plug-in current transformer; Primary rated current: 64 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-2701/064-001](http://www.wago.com/855-2701/064-001)  
0.2 VA; Accuracy class: 1



**Item no.: 855-501/1000-1001**  
Plug-in current transformer; Primary rated current: 1000 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-501/1000-1001](http://www.wago.com/855-501/1000-1001)  
10 VA; Accuracy class: 1



**Item no.: 855-601/1500-501**  
Plug-in current transformer; Primary rated current: 1500 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-601/1500-501](http://www.wago.com/855-601/1500-501)  
5 VA; Accuracy class: 1



**Item no.: 855-401/600-501**  
Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-401/600-501](http://www.wago.com/855-401/600-501)  
10 VA; Accuracy class: 1



**Item no.: 855-401/400-501**  
Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-401/400-501](http://www.wago.com/855-401/400-501)  
5 VA; Accuracy class: 1



**Item no.: 855-501/800-1001**  
Plug-in current transformer; Primary rated current: 800 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-501/800-1001](http://www.wago.com/855-501/800-1001)  
10 VA; Accuracy class: 1



**Item no.: 855-501/400-1001**  
Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-501/400-1001](http://www.wago.com/855-501/400-1001)  
10 VA; Accuracy class: 1



**Item no.: 855-501/600-1001**  
Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-501/600-1001](http://www.wago.com/855-501/600-1001)  
10 VA; Accuracy class: 1



**Item no.: 855-401/250-501**  
Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-401/250-501](http://www.wago.com/855-401/250-501)  
5 VA; Accuracy class: 1



**Item no.: 855-801/1000-1001**  
Plug-in current transformer; Primary rated current: 1000 A; Secondary rated current: 1 A; Rated power: [www.wago.com/855-801/1000-1001](http://www.wago.com/855-801/1000-1001)  
10 VA; Accuracy class: 1

Subject to changes. Please also observe the further product documentation!

## Memory card

### Memory card



**Item no.:** 758-879/000-3102  
Memory Card SD Micro; 2 GByte

[www.wago.com/758-879/000-3102](http://www.wago.com/758-879/000-3102)

## Cables and pluggable connectors

### Connector plug



**Item no.:** 750-978/000-011  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

[www.wago.com/750-978/000-011](http://www.wago.com/750-978/000-011)

### Communication cable



**Item no.:** 750-923/000-001  
Configuration cable; USB connector; Length: 5 m

[www.wago.com/750-923/000-001](http://www.wago.com/750-923/000-001)

## Power supplies

### Power supply unit



**Item no.:** 787-2850  
Power supply; Compact; 1-phase; 24 VDC output voltage; 1.25 A output current

[www.wago.com/787-2850](http://www.wago.com/787-2850)

## Tool

### Operating tool



**Item no.:** 210-720  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)

## Voltage tap

### Power tap



**Item no.:** 855-8001  
Power tap; with fuse; 2,5 mm<sup>2</sup> (12 AWG) - 6 mm<sup>2</sup> (10 AWG); Phase

[www.wago.com/855-8001](http://www.wago.com/855-8001)



**Item no.:** 855-8002  
Power tap; without fuse; 2,5 mm<sup>2</sup> (12 AWG) - 6 mm<sup>2</sup> (10 AWG); N-conductor

[www.wago.com/855-8002](http://www.wago.com/855-8002)



**Item no.:** 855-8004  
Power tap; without fuse; 10 mm<sup>2</sup> (8 AWG) - 16 mm<sup>2</sup> (6 AWG); N-conductor

[www.wago.com/855-8004](http://www.wago.com/855-8004)



**Item no.:** 855-8003  
Power tap; with fuse; 10 mm<sup>2</sup> (8 AWG) - 16 mm<sup>2</sup> (6 AWG); Phase

[www.wago.com/855-8003](http://www.wago.com/855-8003)



**Item no.:** 855-8006  
Power tap; for busbar; with fuse; Mounting screw M6

[www.wago.com/855-8006](http://www.wago.com/855-8006)

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**Item no.: 855-8008**  
Power tap; for busbar; with fuse; Mounting screw M8

	<b>Item no.: 855-8015</b> Power tap; for busbar; with fuse; Clamping connection	<a href="http://www.wago.com/855-8015">www.wago.com/855-8015</a>
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**Interface module**

Interface module

	<b>Item no.: 289-175/790-108</b> Interface module; RJ-45; PCB terminal blocks, double-row; Cat. 5; in mounting carrier; with shield connection; with shield clamping saddle	<a href="http://www.wago.com/289-175/790-108">www.wago.com/289-175/790-108</a>
	<b>Item no.: 289-176</b> Interface module; RJ-45; with power jumper contacts; RJ-45; Cat. 5; in mounting carrier	<a href="http://www.wago.com/289-176">www.wago.com/289-176</a>

**Downloads**

**Documentation**

**Manual**

Product Manual 3-Phase Power Measurement Module	V 1.0.0	pdf 16.4 MB	Download
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**Bid Text**

2857-570/024-001 X81 - Datei	2019 Jul 15	xml 8.8 kB	Download
2857-570/024-001 docx - Datei	2019 Jul 15	docx 20.1 kB	Download

**Instruction Leaflet**

3-Phasen-Leistungsmessmodul	V 1.1.0	pdf 1.2 MB	Download
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**Additional Information**

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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**Libraries**

**Library**

Subject to changes. Please also observe the further product documentation!



Library for the Wago 3-Phase Powertransducer module 2857-570 WAGO-I/O-PRO Library for 2857-0570/0024-000x 3-Phase Powertransducer modules	1.0.0 2019 Feb 28	zip 2.2 MB	Download
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## Engineering-Software

### Configuration and Commissioning Software

WAGO Interface Configuration Software G2 SMALL The full setup only includes the WAGO Interface Configuration Software G2.	1.00.10.01 2022 Jan 20	exe 31.0 MB	Download
WAGO Interface Configuration Software G2 FULL The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework.	1.00.10.01 2022 Jan 20	exe 114.9 MB	Download

## Runtime Software

### Firmware

2857-0570/024-001, 3-Phasen-Leistungsmessumformer WAGO_FW2857-0570_024-001_V030100_IX03_H	V 03 2022 Jun 14	zip 515.6 kB	Download
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## CAD/CAE-Data

### CAE data

EPLAN Data Portal 2857-570/024-001		URL	Download
ZUKEN Portal 2857-570/024-001		URL	Download

### CAD data

2D/3D Models 2857-570/024-001		URL	Download
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## Environmental Product Compliance

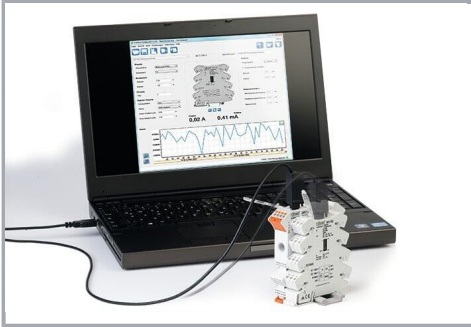
### Compliance Search

Environmental Product Compliance 2857-570/024-001 3-Phase Power Measurement Module; 3x277/480 V/1 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC		URL	Download
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Subject to changes. Please also observe the further product documentation!

## Installation Notes

### Configuring



Configuration via WAGO Interface  
Configuration Software

Subject to changes. Please also observe the further product documentation!