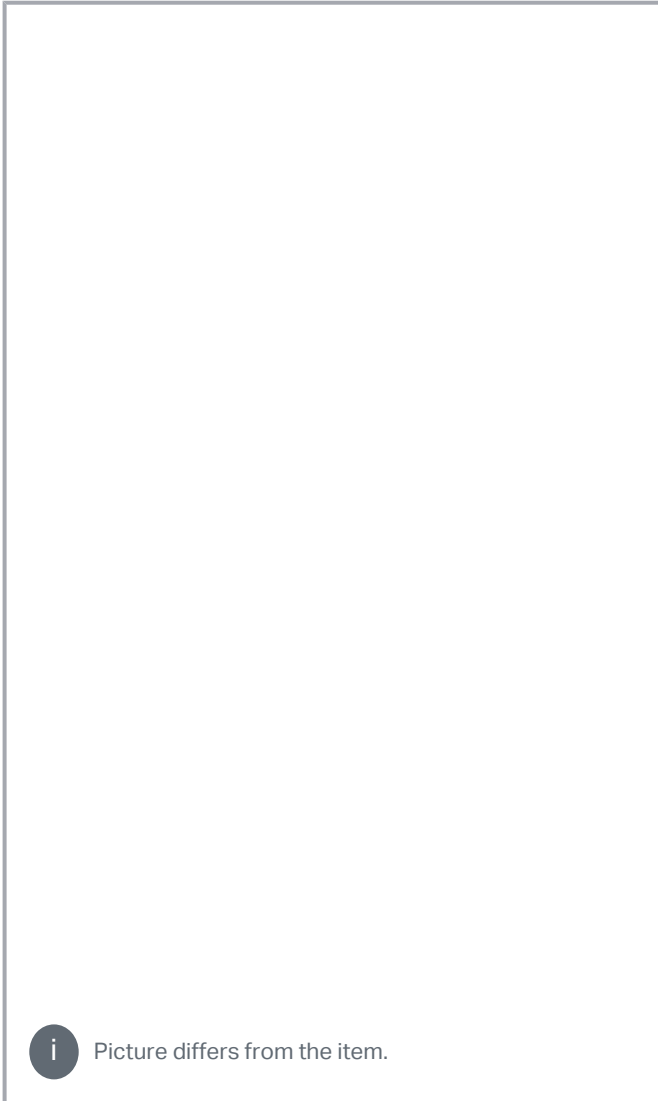


Data sheet | Item number: 2857-570/024-001

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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Do you have any questions about our products?  
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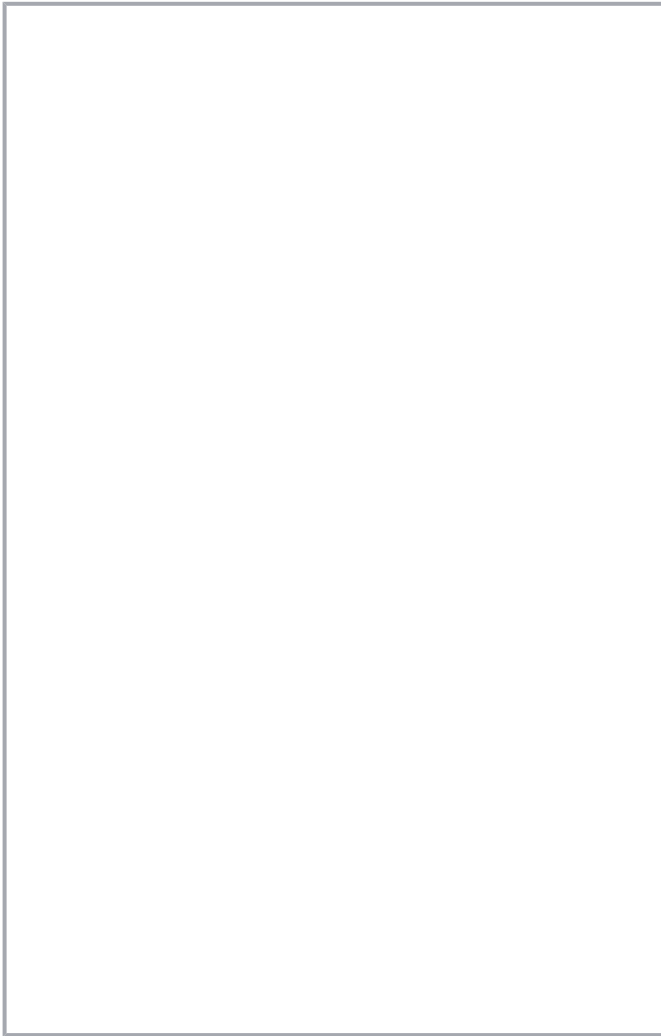


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## Item description

### 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

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

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- 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
------	--

## Technical data

### Configuration

Configuration options	WAGO Interface Configuration Software
-----------------------	---------------------------------------

### Input

Input signal type	Voltage Current
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

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



Pulse output (S0 interface)

## Communication

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

## 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)
Signal form	Any periodic signals (considering the threshold frequencies)
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 (+ $I_{D0}$ )

## Safety and protection

External/neutral conductor voltage	AC / DC 600 V
Overvoltage category	III
Pollution degree	2
Safe isolation	Input/supply and communication per EN 61010-1
Requirement (N input)	Shall not be dangerously active Coils/converters with basic insulation

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



IL<sub>x</sub> input requirement

Protection type IP20

### Test voltage

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

### Connection data

Connection type 1	Voltage
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.25 ... 2.5 mm <sup>2</sup> / 20 ... 12 AWG
Fine-stranded conductor	0.25 ... 2.5 mm <sup>2</sup> / 22 ... 12 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

### Material data

Fire load	0.047 MJ
Weight	115.6 g

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

## Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
Surrounding air 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
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 Stück
Packaging type	box
Country of origin VKOrg Germany	DE
GTIN	4055143827539
Customs tariff number VKOrg Germany	85437090300

## Approvals / Certificates

### Country specific 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

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
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Subject to changes. Please also observe the further product documentation!



DNV GL

Det Norske Veritas, Germanischer Lloyd

TAA00001ZY

## Optional accessories

### Interface module

#### Interface module

**Item no.: 289-175/790-108**

Interface module; RJ-45; PCB terminal blocks, double-row; Cat. 5; in mounting carrier; with shield connection; with shield clamping saddle

[www.wago.com/289-175/790-108](http://www.wago.com/289-175/790-108)
**Item no.: 289-176**

Interface module; RJ-45; with power jumper contacts; RJ-45; Cat. 5; in mounting carrier

[www.wago.com/289-176](http://www.wago.com/289-176)

### 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)

### 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**

Configuration cable; USB connector; Length: 2.5 m

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

### 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)

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## 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)

## Power 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)

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

[www.wago.com/855-8008](http://www.wago.com/855-8008)

**Item no.: 855-8015**  
Power tap; for busbar; with fuse; Clamping connection

[www.wago.com/855-8015](http://www.wago.com/855-8015)

## 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)

## 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)

**Item no.: 855-4101/400-001**  
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

[www.wago.com/855-4101/400-001](http://www.wago.com/855-4101/400-001)

**Item no.: 855-5001/1000-000**  
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

[www.wago.com/855-5001/1000-000](http://www.wago.com/855-5001/1000-000)

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



<p><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</p>	<p><a href="http://www.wago.com/855-5001/250-001">www.wago.com/855-5001/250-001</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-5001/400-000">www.wago.com/855-5001/400-000</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-3001/200-001">www.wago.com/855-3001/200-001</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-3001/250-001">www.wago.com/855-3001/250-001</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-3001/060-003">www.wago.com/855-3001/060-003</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-5001/600-000">www.wago.com/855-5001/600-000</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-5101/1000-000">www.wago.com/855-5101/1000-000</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-4001/100-001">www.wago.com/855-4001/100-001</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-4001/150-001">www.wago.com/855-4001/150-001</a></p>
<p><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</p>	<p><a href="http://www.wago.com/855-4001/200-001">www.wago.com/855-4001/200-001</a></p>
<p><b>Item no.: 855-3001/100-003</b> 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</p>	<p><a href="http://www.wago.com/855-3001/100-003">www.wago.com/855-3001/100-003</a></p>
<p>Plug-in current transformer</p>	
<p><b>Item no.: 855-301/075-201</b> Plug-in current transformer; Primary rated current: 75 A; Secondary rated current: 1 A; Rated power: 2.5 VA; Accuracy class: 1</p>	<p><a href="http://www.wago.com/855-301/075-201">www.wago.com/855-301/075-201</a></p>
<p><b>Item no.: 855-301/150-501</b> Plug-in current transformer; Primary rated current: 150 A; Secondary rated current: 1 A; Rated power: 5 VA; Accuracy class: 1</p>	<p><a href="http://www.wago.com/855-301/150-501">www.wago.com/855-301/150-501</a></p>

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



**Item no.: 855-301/200-501** [www.wago.com/855-301](http://www.wago.com/855-301)  
 Plug-in current transformer; Primary rated current: 200 A; Secondary rated current: 1 A; Rated power: 5 /200-501  
 VA; Accuracy class: 1

**Item no.: 855-301/400-1001** [www.wago.com/855-301](http://www.wago.com/855-301)  
 Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 1 A; Rated power: /400-1001  
 10 VA; Accuracy class: 1

**Item no.: 855-301/050-103** [www.wago.com/855-301](http://www.wago.com/855-301)  
 Plug-in current transformer; Primary rated current: 50 A; Secondary rated current: 1 A; Rated power: /050-103  
 1.25 VA; Accuracy class: 3

**Item no.: 855-301/100-201** [www.wago.com/855-301](http://www.wago.com/855-301)  
 Plug-in current transformer; Primary rated current: 100 A; Secondary rated current: 1 A; Rated power: /100-201  
 2.5 VA; Accuracy class: 1

**Item no.: 855-301/250-501** [www.wago.com/855-301](http://www.wago.com/855-301)  
 Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 5 /250-501  
 VA; Accuracy class: 1

**Item no.: 855-301/600-1001** [www.wago.com/855-301](http://www.wago.com/855-301)  
 Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 1 A; Rated power: /600-1001  
 10 VA; Accuracy class: 1

**Item no.: 855-801/2000-1001** [www.wago.com/855-801](http://www.wago.com/855-801)  
 Plug-in current transformer; Primary rated current: 2000 A; Secondary rated current: 1 A; Rated power: /2000-1001  
 10 VA; Accuracy class: 1

**Item no.: 855-2701/035-001** [www.wago.com/855-2701](http://www.wago.com/855-2701)  
 Plug-in current transformer; Primary rated current: 35 A; Secondary rated current: 1 A; Rated power: /035-001  
 0.2 VA; Accuracy class: 1

**Item no.: 855-1001/2500-1001** [www.wago.com/855-1001](http://www.wago.com/855-1001)  
 Plug-in current transformer; Primary rated current: 2500 A; Secondary rated current: 1 A; Rated power: /2500-1001  
 10 VA; Accuracy class: 1

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

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

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

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

**Item no.: 855-401/600-501**

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

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

[www.wago.com/855-401/600-501](http://www.wago.com/855-401/600-501)

**Item no.: 855-401/400-501**

Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 1 A; Rated power: 5 VA; Accuracy class: 1

[www.wago.com/855-401/400-501](http://www.wago.com/855-401/400-501)

**Item no.: 855-501/800-1001**

Plug-in current transformer; Primary rated current: 800 A; Secondary rated current: 1 A; Rated power: 10 VA; Accuracy class: 1

[www.wago.com/855-501/800-1001](http://www.wago.com/855-501/800-1001)

**Item no.: 855-501/400-1001**

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

[www.wago.com/855-501/400-1001](http://www.wago.com/855-501/400-1001)

**Item no.: 855-501/600-1001**

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

[www.wago.com/855-501/600-1001](http://www.wago.com/855-501/600-1001)

**Item no.: 855-401/250-501**

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

[www.wago.com/855-401/250-501](http://www.wago.com/855-401/250-501)

**Item no.: 855-801/1000-1001**

Plug-in current transformer; Primary rated current: 1000 A; Secondary rated current: 1 A; Rated power: 10 VA; Accuracy class: 1

[www.wago.com/855-801/1000-1001](http://www.wago.com/855-801/1000-1001)

**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)

**Downloads**

**Documentation**

**Manual**

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

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Do you have any questions about our products?  
 We are always happy to take your call at +49 (571) 887-44222.



## Instruction Leaflet

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

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## Libraries

### Library

Library for the Wago 3-Phase Powertransducer module 2857-570	1.0.0	zip 2.2 MB	Download
WAGO-I/O-PRO Library for 2857-0570/0024-000x 3-Phase Powertransducer modules	2019 年2月28 日		

## Engineering-Software

### Configuration and Commissioning Software

WAGO Interface Configuration Software G2 SMALL	1.0.8.6	exe 30.0 MB	Download
The full setup only includes the WAGO Interface Configuration Software G2.	2022 年1月20 日		
WAGO Interface Configuration Software G2 FULL	1.0.8.6	exe 114.0 MB	Download
The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework.	2022 年1月20 日		

## Runtime Software

### Firmware

2857-0570/024-001, 3-Phasen-Leistungsmessumformer	V 03	zip 515.6 kB	Download
WAGO_FW2857-0570_024-001_V030100_IX03_H	2022 年6月14 日		

## CAD/CAE-Data

### CAE data

EPLAN Data Portal 2857-570/024-001		URL	Download
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Subject to changes. Please also observe the further product documentation!

ZUKEN Portal 2857-570/024-001

[URL](#)

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### CAD data

2D/3D Models 2857-570/024-001

[URL](#)

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2857-570/024-001

[URL](#)

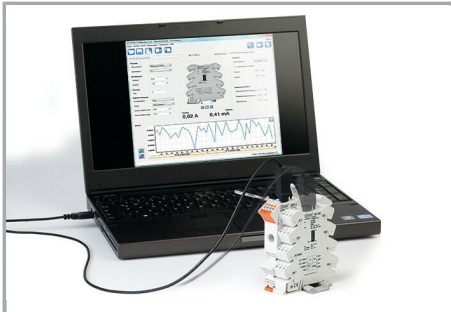
[Download](#)

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

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## Installation Notes

### Configuring



Configuration via WAGO Interface  
Configuration Software

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