

Data sheet | Item number: 750-495

3-Phase Power Measurement; 690 VAC, 1 A

[www.wago.com/750-495](http://www.wago.com/750-495)



Color:

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

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### Item description

The 750-495 3-Phase Power Measurement Module measures electrical data in a three-phase supply network. The voltage is measured via network connection to L1, L2, L3 and N. The current of the three phases is fed to IL1, IL2, IL3 and IN (two clamping points each +,-) via current transformers or via Rogowski coils for the 750-495/000-002 module. The 750-495 Module transmits metrics (e.g., reactive/apparent/effective power, energy consumption, power factor, phase angle, frequency, over-/undervoltage) directly into the process image, without requiring high computing power from the controller. Both comprehensive metrics and harmonic analysis up to the 41st harmonic permit extensive network analysis via the fieldbus.

Metrics allow the operator to optimize the supply to a drive or machine, protecting the system from damage and failure. Insulation failures can be detected and prevented via current measurement performed in the neutral conductor. The 4-quadrant display indicates the type of load (inductive, capacitive) and whether it is an energy consumer or producer.

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## Data

### Technical data

Number of measurement inputs	7 (3 voltage measurement inputs, 4 differential current measurement inputs)
Signal type	Power measurement
Signal form	Sinusoidal signals (taking the cutoff frequency into account)
Resolution [bit]	24 bits
Data width	2 x 128-bit data; 2 x 64-bit control/status
Voltage path input resistance (typ.)	1429 k $\Omega$
Current path input resistance (typ.)	22 m $\Omega$
Reference for measurement error	AC current/voltage
Measurement error (reference temperature)	23 °C
Measurement error, deviation (max.) from the upper-range value	0.5 %
Measurement current (max.)	1 A
Measurement cycle time	Adjustable for arithmetic mean value, Min_Max_Values
Frequency range (mains frequency)	50/60 Hz
Frequency range (harmonics analysis)	0 ... 3300 Hz
Limit frequency	15.9 kHz
Calculated values	Line-to-line voltage, power output, energy, power factors, mains frequency, harmonic analysis (up to the 41st harmonic), THD
Measurement method	True RMS measurement
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	100 mA
Indicators	LED (A) green: Communication; LED (B-G) red: Error L1, Override in Current Measurement Path (display), Undervoltage in Voltage Measurement Path (display), Error L2, Error L3, Override in Voltage Measurement Path (display); LED (H) yellow: Interchange in Phase Sequence L1-L2-L3

### Safety and protection

Measurement category per EN/UL 61010-2-030	CAT III
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### Test voltage

Test voltage	3.51 kVAC, 50/60 Hz, 1 min.
Rated surge voltage	System/field side: 5.0 kV (EN 60870-2-1 / Class VW3) 6.4 kV (EN/UL 61010-1)

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### Insulation coordination per EN/UL 61010-2-201 with N connection

System voltage	≤300 V
Note on system voltage	The system voltage is derived from the line-to-neutral voltage for common MAINS supply systems.
Overtoltage category	III
Insulation type	Reinforced insulation

### Insulation coordination per EN/UL 61010-2-201 without N connection

System voltage	≤600 V
Note on system voltage	The neutral 'N' connector shall not be connected to ensure safe isolation. The system voltage is derived from the line-to-neutral voltage for common MAINS supply systems.
Overtoltage category	III
Insulation type	Double insulation (Basic insulation and Supplementary Insulation by Impedance/current measurement transformer). Safe isolation for neighboring SELV/PELV modules must be maintained. User manual 750-495/000-00x, section "Isolation to Adjacent I/O Modules per EN/UL 61010 2-201" contains the types of insulation to neighboring modules. The 750-495/000-00x Power Measurement Module must not be attached directly to SELV/PELV modules without double or reinforced insulation. A 750-616 distance module must be attached at these conditions.

### Connection data

Connection technology: inputs/outputs	12 x CAGE CLAMP®
Connection type 1	Inputs/outputs
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Note (conductor cross-section)	Solid conductor: 20 ... 14 AWG (UL); Fine-stranded conductor: 20 ... 16 AWG (UL) These values refer exclusively to the mechanical connection capacity of the clamping points. When the applications/devices are operated in locations covered by UL, only solid conductor with 20 ... 14 AWG and fine-stranded conductor with 20 ... 16 AWG are permitted.

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## Physical data

Width	24 mm / 0.945 inches
Height	100 mm / 3.937 inches
Depth	67.8 mm / 2.669 inches
Depth from upper-edge of DIN-rail	60.6 mm / 2.386 inches

## Mechanical data

Mounting type	DIN-35 rail
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## Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	2.001 MJ
Weight	90.7 g
Conformity marking	CE

## Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per EN 60664-1
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal left, horizontal up, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-3
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %	25 ppm

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## Commercial data

Product Group	15 (I/O System)
eCl@ss 10.0	27-24-26-05
eCl@ss 9.0	27-24-26-05
ETIM 8.0	EC001601
ETIM 7.0	EC001601
Recupel Type	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
Customs tariff number	8538909990

## 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	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Czech Republic)	5b4d8695-cd28-4784-a429-8d4505f65451

## Commercial data

eCl@ss 9.0	
ETIM 8.0	
ETIM 7.0	
Customs tariff number	

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC	TP TC 020/2011	EAC RU C-

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Brjansker Zertifizierungsstelle		DE.AM02. B.00087 /19
<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 004/2011	EAC RU C- DE.AM02. B. 00088_19
<b>KC</b> National Radio Research Agency	Article 58-2, Clause 3	MSIP- REM-W43- AIM750

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

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

#### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>BSH</b> Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
	<b>PRS</b> Polski Rejestr Statków	-	TE/2236/880590 /19
	<b>RINA</b> RINA Germany GmbH	-	ELE343521XG001

#### Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	-	E198726

#### Optional accessories

##### Voltage tap

Power tap	
<b>Item no.: 855-8001</b> Power tap; with fuse; 2,5 mm <sup>2</sup> (12 AWG) - 6 mm <sup>2</sup> (10 AWG); Phase	<a href="http://www.wago.com/855-8001">www.wago.com/855-8001</a>
<b>Item no.: 855-8002</b> Power tap; without fuse; 2,5 mm <sup>2</sup> (12 AWG) - 6 mm <sup>2</sup> (10 AWG); N-conductor	<a href="http://www.wago.com/855-8002">www.wago.com/855-8002</a>

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

**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)**System housing**

## System enclosure

**Item no.: 850-814/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate

[www.wago.com/850-814/002-000](http://www.wago.com/850-814/002-000)**Item no.: 850-815/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate

[www.wago.com/850-815/002-000](http://www.wago.com/850-815/002-000)**Item no.: 850-816/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate

[www.wago.com/850-816/002-000](http://www.wago.com/850-816/002-000)**Item no.: 850-817/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate

[www.wago.com/850-817/002-000](http://www.wago.com/850-817/002-000)**Item no.: 850-825**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20

[www.wago.com/850-825](http://www.wago.com/850-825)**Item no.: 850-826**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

[www.wago.com/850-826](http://www.wago.com/850-826)**Item no.: 850-827**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

[www.wago.com/850-827](http://www.wago.com/850-827)**Item no.: 850-827/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

[www.wago.com/850-827/002-000](http://www.wago.com/850-827/002-000)**Item no.: 850-826/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

[www.wago.com/850-826/002-000](http://www.wago.com/850-826/002-000)**Item no.: 850-828/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

[www.wago.com/850-828/002-000](http://www.wago.com/850-828/002-000)**Item no.: 850-828**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

[www.wago.com/850-828](http://www.wago.com/850-828)**Item no.: 850-834**

IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20

[www.wago.com/850-834](http://www.wago.com/850-834)**Item no.: 850-835**

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IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip [www.wago.com/850-835](http://www.wago.com/850-835)

**Item no.: 850-836**

IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip [www.wago.com/850-836](http://www.wago.com/850-836)

**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)

**Item no.: 855-5001/250-001**

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 [www.wago.com/855-5001/250-001](http://www.wago.com/855-5001/250-001)

**Item no.: 855-5001/400-000**

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 [www.wago.com/855-5001/400-000](http://www.wago.com/855-5001/400-000)

**Item no.: 855-3001/200-001**

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/855-3001/200-001](http://www.wago.com/855-3001/200-001)

**Item no.: 855-3001/250-001**

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/855-3001/250-001](http://www.wago.com/855-3001/250-001)

**Item no.: 855-3001/060-003**

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 [www.wago.com/855-3001/060-003](http://www.wago.com/855-3001/060-003)

**Item no.: 855-5001/600-000**

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 [www.wago.com/855-5001/600-000](http://www.wago.com/855-5001/600-000)

**Item no.: 855-5101/1000-000**

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/855-5101/1000-000](http://www.wago.com/855-5101/1000-000)

**Item no.: 855-4001/100-001**

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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

[www.wago.com/855-4001/100-001](http://www.wago.com/855-4001/100-001)

**Item no.: 855-4001/150-001**

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

[www.wago.com/855-4001/150-001](http://www.wago.com/855-4001/150-001)

**Item no.: 855-4001/200-001**

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

[www.wago.com/855-4001/200-001](http://www.wago.com/855-4001/200-001)

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

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/855-3001/100-003](http://www.wago.com/855-3001/100-003)

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)

Plug-in current transformer

**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)

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**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)

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

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

**Item no.: 855-1700/032-000**

Plug-in current transformer; Primary rated current 32 A; Secondary rated current 320 mA [www.wago.com/855-1700/032-000](http://www.wago.com/855-1700/032-000)

**Item no.: 855-301/060-101**

Plug-in current transformer; Primary rated current: 60 A; Secondary rated current: 1 A; Rated power: 1.25 VA; Accuracy class: 1 [www.wago.com/855-301/060-101](http://www.wago.com/855-301/060-101)

**Item no.: 855-2701/064-001**

Plug-in current transformer; Primary rated current: 64 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 1 [www.wago.com/855-2701/064-001](http://www.wago.com/855-2701/064-001)

**Item no.: 855-501/1000-1001**

Plug-in current transformer; Primary rated current: 1000 A; Secondary rated current: 1 A; Rated power: 10 VA; Accuracy class: 1 [www.wago.com/855-501/1000-1001](http://www.wago.com/855-501/1000-1001)

**Item no.: 855-601/1500-501**

Plug-in current transformer; Primary rated current: 1500 A; Secondary rated current: 1 A; Rated power: 5 VA; Accuracy class: 1 [www.wago.com/855-601/1500-501](http://www.wago.com/855-601/1500-501)

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

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**

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



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)

## Carrier rail

### Mounting accessories

**Item no.: 210-197**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored [www.wago.com/210-197](http://www.wago.com/210-197)

**Item no.: 210-198**  
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored [www.wago.com/210-198](http://www.wago.com/210-198)

**Item no.: 210-504**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored [www.wago.com/210-504](http://www.wago.com/210-504)

**Item no.: 210-505**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored [www.wago.com/210-505](http://www.wago.com/210-505)

**Item no.: 210-506**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored [www.wago.com/210-506](http://www.wago.com/210-506)

**Item no.: 210-508**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored [www.wago.com/210-508](http://www.wago.com/210-508)

**Item no.: 210-113**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored [www.wago.com/210-113](http://www.wago.com/210-113)

**Item no.: 210-118**  
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored [www.wago.com/210-118](http://www.wago.com/210-118)

**Item no.: 210-112**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored [www.wago.com/210-112](http://www.wago.com/210-112)

**Item no.: 210-114**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored [www.wago.com/210-114](http://www.wago.com/210-114)

**Item no.: 210-115**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored [www.wago.com/210-115](http://www.wago.com/210-115)

**Item no.: 210-196**  
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored [www.wago.com/210-196](http://www.wago.com/210-196)

## Potential distribution

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

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## 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)

## Marking accessories

## Marker carrier

**Item no.: 750-103**

Group marker carrier

[www.wago.com/750-103](http://www.wago.com/750-103)

## Marker

**Item no.: 2009-145/000-006**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[www.wago.com/2009-145/000-006](http://www.wago.com/2009-145/000-006)

**Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-145](http://www.wago.com/2009-145)

**Item no.: 2009-145/000-002**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[www.wago.com/2009-145/000-002](http://www.wago.com/2009-145/000-002)

**Item no.: 2009-145/000-007**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

[www.wago.com/2009-145/000-007](http://www.wago.com/2009-145/000-007)

**Item no.: 2009-145/000-005**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

[www.wago.com/2009-145/000-005](http://www.wago.com/2009-145/000-005)

**Item no.: 2009-145/000-012**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[www.wago.com/2009-145/000-012](http://www.wago.com/2009-145/000-012)

**Item no.: 2009-145/000-023**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

[www.wago.com/2009-145/000-023](http://www.wago.com/2009-145/000-023)

**Item no.: 2009-145/000-024**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

[www.wago.com/2009-145/000-024](http://www.wago.com/2009-145/000-024)

**Item no.: 248-501/000-006**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

[www.wago.com/248-501/000-006](http://www.wago.com/248-501/000-006)

**Item no.: 248-501/000-007**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

[www.wago.com/248-501/000-007](http://www.wago.com/248-501/000-007)

**Item no.: 248-501/000-002**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

[www.wago.com/248-501/000-002](http://www.wago.com/248-501/000-002)

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<b>Item no.: 248-501/000-012</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	<a href="http://www.wago.com/248-501/000-012">www.wago.com/248-501/000-012</a>
<b>Item no.: 248-501</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>
<b>Item no.: 248-501/000-017</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green	<a href="http://www.wago.com/248-501/000-017">www.wago.com/248-501/000-017</a>
<b>Item no.: 248-501/000-005</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	<a href="http://www.wago.com/248-501/000-005">www.wago.com/248-501/000-005</a>
<b>Item no.: 248-501/000-024</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet	<a href="http://www.wago.com/248-501/000-024">www.wago.com/248-501/000-024</a>
<b>Item no.: 248-501/000-023</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green	<a href="http://www.wago.com/248-501/000-023">www.wago.com/248-501/000-023</a>
Group marker carrier	
<b>Item no.: 750-107</b> Group marker carrier	<a href="http://www.wago.com/750-107">www.wago.com/750-107</a>
<b>Shield termination</b>	
Shield clamping saddles	
<b>Item no.: 790-116</b> Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	<a href="http://www.wago.com/790-116">www.wago.com/790-116</a>
<b>Item no.: 790-124</b> Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm	<a href="http://www.wago.com/790-124">www.wago.com/790-124</a>
<b>Item no.: 790-108</b> Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm	<a href="http://www.wago.com/790-108">www.wago.com/790-108</a>
<b>Item no.: 790-140</b> Shield clamping saddle; diameter of compatible conductor	<a href="http://www.wago.com/790-140">www.wago.com/790-140</a>
<b>Item no.: 790-216</b> Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm	<a href="http://www.wago.com/790-216">www.wago.com/790-216</a>
<b>Item no.: 790-220</b> Shield clamping saddle; 30 mm wide; 6 ... 20 mm	<a href="http://www.wago.com/790-220">www.wago.com/790-220</a>
<b>Item no.: 790-208</b> Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	<a href="http://www.wago.com/790-208">www.wago.com/790-208</a>

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## Downloads Documentation

### Manual

System Manual WAGO I/O System 750/753 Decentralized Automation Technology	V 3.3.3 2023 年8月29 日	pdf 8.7 MB	Download
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Product Manual 3-Phase Power Measurement Module 690 V	V 1.3.0 2023 年4月6 日	pdf 18.9 MB	Download
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System Manual Series 750/753 Online HTML		URL	Download
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750-495 doc - Datei	2017 年10月20 日	doc 31.7 kB	Download
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### System Description

Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 223.5 kB	Download
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750/753 Series I/O-System – General Product Information		pdf 976.2 kB	Download
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### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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## Application Notes

### Application note SIEMENS

Using power measurement module 750-495 with TIA (a500671) This application note shows how to access the Wago 3-Phase Power measurement module in TIA.	1.0.0 2017 年11月22 日	zip 21.6 MB	Download
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WagoS7\_PowerMeasurement\_495 (a500670)

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This application note shows how to access the Wago 3-Phase Power measurement module in Step 7 V5.5.	1.2.1 2017 年11月22 日	zip 5.7 MB	Download
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**Application Note CoDeSys 2.3**

3-Phase power measurement with CAN coupler on a perspecto control panel (a500810)	1.0.0 2015 年7月1 日	zip 4.6 MB	Download
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Based on this example, the aim is to show how the 3-Phase Power Measurement Module 750-495 of the WAGO-I/O-SYSTEM can be used to record power measurements. In addition, the power measurement module should display process values on and be configurable from a PERSPECTO® control panel via a CAN coupler.

Application Note for the 750-495 3-Phase Power Measurement Module	24.01.2014 2014 年1月24 日	zip 1.8 MB	Download
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The application note for the 3-Phase Power Measurement Module 750-495 shows how the measured values of the power measurement module can be read. It is also shown how the power module can be configured using the WAGO-I/O-PRO- V2.3 visualization tool.

**Libraries**

**e!COCKPIT libraries**

e!COCKPIT Library Description WagoAppPowerMeasurement	1.7.4.0 2021 年5月25 日	pdf 1.5 MB	Download
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**Library**

Function block description PowerMeasurement_495_02.lib	2.1.0 2017 年1月23 日	zip 1.6 MB	Download
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**CAD/CAE-Data**

**CAD data**

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**CAE data**

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 750-495  
3-Phase Power Measurement; 690 VAC, 1 A

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## Installation Notes

### Product family

**WAGO I/O System 750/753**

[Show all products from the family](#)

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