# Data Sheet | Item Number: 855-951/250-000

Current and voltage tap up to 95 mm²; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused

https://www.wago.com/855-951/250-000




**Short description:**

WAGO's Current and Voltage Tap for 95 mm² (4/0 AWG) high-current through terminal blocks provides the ideal basis for successful energy management,because current and voltage are required wherever electrical power is measured. A combination of current transformer and voltage tap, the current and voltage tap can be quickly and easily mounted into the jumper slot of WAGO's 95 mm² (4/0 AWG) high-current through terminal block.
An integrated fuse reliably protects downstream energy meters. An integrated current transformer (conversion ratio: 250 A/1 A) allows precise current measurement per EN 61869-2 (accuracy class: 0.5).
The current output connectors are marked with S1 (black) and S2 (red). Both termination and removal of fine-stranded conductors is performed via push-buttons. The 5-pole configuration (2 x S1 and 3 x S2) provides the following advantages:

- Current transformer (S1 and S2) can be short circuited via jumper (2000-402)
- Direct 'Y' point jumper on current transformer

The voltage is connected using a redundant terminal block.Additionally, the current and voltage tap can be marked either using continuous marking strips or via WMB Multi Marking System.

**Features:**

- Power data can be directly tapped into the power supply
- Easy installation – simply insert the tap into the jumper slot of the 95 mm² (4/0 AWG) high-current through terminal block
- Integrated 250 A/1 A current transformer
- Accuracy class: 0.5
- Fuse-protected voltage path

## Notes

| | |
|---|---|
| Note | Suitable for 2-conductor through terminal blocks for DIN-rail mounting (285-195; 285-194)<br>Suitable for 2-conductor through terminal blocks with mounting flanges (285-181; 285-184)<br>Spare fuse: WAGO 855-8020 |

## Technical data

### Input

| | |
|---|---|
| Measured variable | Voltage<br>Current |

### Input – current transformer

| | |
|---|---|
| Rated continuous thermal current $I_{cth}$ | 250 A |
| Rated short-time thermal current $I_{th}$ | 15 kA / 1 s |
| Rated surge current $I_{dyn}$ | 37.5 kA |
| Rated frequency | 50 … 60 Hz |
| Primary rated current | 250 A |

## Output – current transformer

| | |
|---|---|
| Secondary rated current | 1 A |
| Rated power $S_r$ | 0.2 VA |

## Output – voltage tap

| | |
|---|---|
| Fuse (voltage path) | 2 A; 450 V; F; 70 kA; 5 x 25 mm (WAGO 855-8020) |
| Rated Voltage | 400 VAC |

## Measurement Error

| | |
|---|---|
| Accuracy class | 0.5 |

## Safety and protection

| | |
|---|---|
| Overvoltage category | III |
| Pollution degree | 2 |
| Protection type | IP20 |
| Test voltage | 3 kVAC; 50 Hz; 1 min |
| Highest voltage for equipment $U_m$ | 720 $V_{rms}$AC |

## Connection Data

| | |
|---|---|
| Feedthrough for measurement conductor | Ø ≤ 16 mm |

### Connection 1

| | |
|---|---|
| Connection type | Current output |
| Connection technology | Push-in CAGE CLAMP® |
| WAGO connector | WAGO 250 Series |
| Strip length | 8.5 … 9.5 mm / 0.33 … 0.37 inches |
| Solid conductor | 0.2 … 1.5 mm² / 24 … 16 AWG |
| Fine-stranded conductor | 0.2 … 1.5 mm² / 24 … 16 AWG |

### Connection 2

| | |
|---|---|
| Connection type | Voltage output |
| Connection technology | Push-in CAGE CLAMP® |
| WAGO connector | WAGO 2624 Series |
| Strip length | 10 … 12 mm / 0.39 … 0.47 inches |
| Solid conductor | 0.2 … 6 mm² / 24 … 10 AWG |
| Fine-stranded conductor | 0.2 … 6 mm² / 24 … 10 AWG |

## Physical data

| | |
|---|---|
| Width | 25 mm / 0.984 inches |
| Height | 73 mm / 2.874 inches |
| Depth | 58 mm / 2.283 inches |

## Mechanical data

| | |
|---|---|
| Mounting type | via 2-conductor high-current through terminal block's jumper slot |


Continued on next page

## Material data

| | |
|---|---|
| Housing material | PA 66 |
| Fire load | 0.092 MJ |
| Weight | 98 g |

## Environmental requirements

| | |
|---|---|
| Ambient temperature (operation) | -25 … +70 °C |
| Ambient temperature (storage) | -25 … +70 °C |
| Relative humidity | 5 … 85 % (without condensation) |
| Operating altitude (max.) | 2000 m |

## Standards and Specifications

| | |
|---|---|
| Conformity marking | CE |
| Standards/specifications | EN 61869-2<br>EN 60947-7-3 |

## Commercial data

| | |
|---|---|
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | NL |
| Customs tariff number | 85043180888 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121008 |
| eCl@ss 10.0 | 27-21-09-02 |
| eCl@ss 9.0 | 27-21-09-02 |
| ETIM 9.0 | EC002048 |
| ETIM 10.0 | EC002048 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| EAC<br>GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03082 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |


Continued on next page

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 855-951/250-000

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 855-951/250-000 | 19.02.2019 | xml 8.50 KB |
| 855-951/250-000 | 09.08.2018 | docx 21.34 KB |

**Instruction Leaflet**

| | |
|---|---|
| Current and voltage tap for the 2-conductor through terminal block of the 855 series | pdf 1312.52 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 855-951/250-000

**CAE data**

EPLAN Data Portal 855-951/250-000

ZUKEN Portal 855-951/250-000

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Fuse

##### 1.1.1.1 Fuse



Item No.: 855-8020
Miniature fuse; 5 x 25 mm; with indicator

#### 1.1.2 Installation

##### 1.1.2.1 Current transformer terminal block



Item No.: 2007-8876
Compact terminal block; for 3-phase current transformer circuit; 6,00 mm²; multicoloured



Item No.: 2007-8873
Compact terminal block; for current and voltage transformers; 6,00 mm²; multi-coloured



Item No.: 2007-8874
Compact terminal block; for current and voltage transformers; 6,00 mm²; multi-coloured



Item No.: 2007-8875
Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured



Item No.: 2007-8877
Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured


Continued on next page

## 1.1.3 Marking

### 1.1.3.1 Marker



Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 793-502
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-566
WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-503
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-504
WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-505
WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-506
WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

### 1.1.3.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white



Item No.: 210-831
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white



Item No.: 210-832
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

## 1.1.4 Signal conditioner

### 1.1.4.1 Current Signal Conditioner



Item No.: 857-550
Current signal conditioner; Current input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

### 1.1.4.2 Power Measurement Module



Item No.: 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


Continued on next page

### 1.1.5 Terminal blocks

#### 1.1.5.1 Through terminal block



Item No.: 285-194
2-conductor through terminal block; 95 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 95,00 mm²; blue



Item No.: 285-195
2-conductor through terminal block; 95 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 95,00 mm²; gray



Item No.: 285-184
2-conductor through terminal block; 95 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 95,00 mm²; blue



Item No.: 285-181
2-conductor through terminal block; 95 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 95,00 mm²; gray

### 1.1.6 Tool

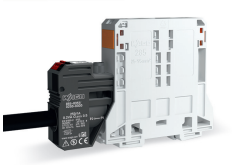
#### 1.1.6.1 Operating tool



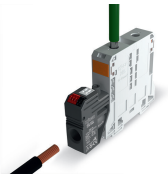
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

## Installation Notes

### Installation



Installation via jumper slot



Feedthrough for primary conductors

### Conductor termination



Push-in CAGE CLAMP® connection technology

### Security



Integrated fuse