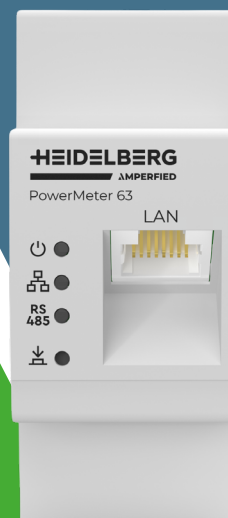


# POWMETER 63 POWMETER 200



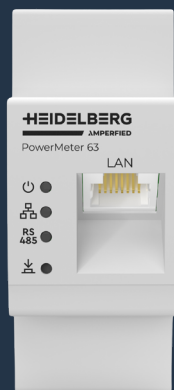
Datenblatt



Data sheet



# POWERMETER 63 POWERMETER 200 DATENBLATT



**Amperfiend PowerMeter 63/200**



**Amperfiend Stromwandler**

## **Technische Highlights des PowerMeter 63/200**

- \ Einfache Installation durch Klappwandler
- \ Dezentrale Messtechnik über Modbus TCP
- \ Kompakte Bauform (2TE)

TECHNISCHE DATEN POWERMETER 63/200

| Produktinformation |                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modelle            | PowerMeter 63<br>PowerMeter 200                                                                                                                               |
| Verpackungseinheit | 1                                                                                                                                                             |
| Lieferumfang       | 1x Sensor Unit, Installationsan-<br>leitung, 4x Anschlussstecker (1x<br>Stecker Versorgung, 1x Stecker<br>CTs, 2x Stecker RS485), 3x<br>Stromwandler 63A/200A |

| Stromversorgung & Spannungseingänge |                               |
|-------------------------------------|-------------------------------|
| Versorgung aus                      | Spannungseingang L1/N         |
| Leistungsaufnahme Pmax              | 2 W                           |
| Anzahl Spannungseingänge            | 4 (L1, L2, L3, N)             |
| Überspannungskategorie              | CAT III                       |
| Leistungsschutz                     | 16 A Typ B                    |
| Messbereich                         | 85 ... 250 V AC               |
| Frequenz                            | 50/60 Hz ± 5 %                |
| Anschlussart                        | Stecker mit Push-In liegt bei |
| Anschlussvermögen                   | 0,20 ... 2,50 mm²             |

| Stromeingänge             |                                                       |
|---------------------------|-------------------------------------------------------|
| Anzahl Stromeingänge      | PowerMeter 63 : 3<br>PowerMeter 200 : 3               |
| Anschlussart              | Stecker mit Push-In liegt bei                         |
| Unterstützte Stromwandler | Amperfi ed Stromwandler SCT1<br>(63 A) / SCT3 (200 A) |

| Ethernet Schnittstelle |                             |
|------------------------|-----------------------------|
| Anzahl                 | 1                           |
| Anschlussart           | RJ45 geschirmt              |
| Typ                    | 10/100 Mbit                 |
| Features               | Auto-Negotiation, Auto-MDIX |
| max. Kabellänge        | 100 m (CAT5)                |
| Datenprotokoll         | Modbus TCP                  |

| Mechanische Daten      |                               |
|------------------------|-------------------------------|
| Gehäusematerial        | Glasfaserverstärktes Polyamid |
| Feuerbeständigkeit     | UL94-V0                       |
| Schutzklasse           | II                            |
| Schutzgrad             | IP2X                          |
| Gewicht                | <0,1 kg                       |
| Abmessung ohne Stecker | 88 x 35 x 65 mm               |
| Breite/Montage         | 2 TE/Hutschiene               |

| Umgebungsbedingungen                            |                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------|
| Umgebungstemperatur im Betrieb (°C)             | -25 °C ... +55 °C                                                               |
| Umgebungstemperatur bei Transport/Lagerung (°C) | -25 °C ... +70 °C                                                               |
| Relative Luftfeuchte (nicht kondensierend) (%)  | Bis zu 75 % im Jahresdurch-<br>schnitt, bis zu 95 % an bis zu 30 Tagen/<br>Jahr |
| Max. Höhe (m)                                   | 2000 m über NN                                                                  |

| Produktsicherheit |                                               |
|-------------------|-----------------------------------------------|
| Produktnormen     | EN 61010-1; EN 61010-2-030;<br>EN 61010-2-201 |

| Elektromagnetische Verträglichkeit |                                   |
|------------------------------------|-----------------------------------|
| Produktnormen                      | EN 61326-1, Tabelle 2 (Industrie) |

| Störfestigkeit                             |                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| ESD (IEC 61000-4-2)                        | 4 kV Kontaktentladung<br>8 kV Luftentladung                                                                            |
| HF-Einstrahlung (IEC 61000-4-3)            | 3 V/m<br>10 V/m bei erhöhter Abwei-<br>chung der Messgenauigkeit                                                       |
| Burst (IEC 61000-4-4)                      | Netz: 4 kV<br>Ethernet: 2 kV                                                                                           |
| Surge (IEC 61000-4-5)                      | L-L: 1 kV<br>L-N: 2 kV<br>Ethernet: 1 kV                                                                               |
| Leitungsgeführte Störungen (IEC 61000-4-6) | 150 kHz ... 80 MHz,<br>10 V (Effektivwert)                                                                             |
| Magnetfeld (IEC 61000-4-8)                 | 30 A/m                                                                                                                 |
| Spannungseinbrüche (IEC 61000-4-11)        | 100 %, 20 ms (bleibt aktiv)<br>60 %, 200 ms (aktiv/Neustart)<br>30 %, 500 ms (aktiv/Neustart)<br>100 %, 5 s (Neustart) |

| Störabstrahlung                             |                            |
|---------------------------------------------|----------------------------|
| Störspannung (EN 55011)                     | Netz, Klasse B             |
| Störstrom (EN 55011)                        | Ethernet, Klasse B         |
| Elektromagnetische Störstrahlung (EN 55011) | 30 MHz ... 1 GHz, Klasse B |
| Oberschwingungen (EN 61000-3-2)             | Netz, Klasse A             |
| Spannungsschwankungen (EN 61000-3-3)        | Netz                       |

TECHNISCHE DATEN STROMWANDLER SCT1/SCT3

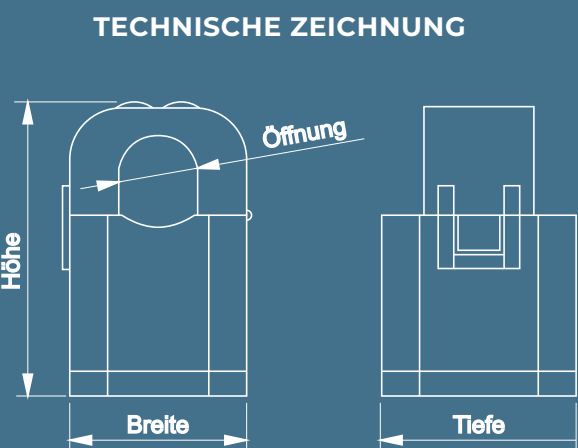
| Produktinformation |                      |                      |
|--------------------|----------------------|----------------------|
| Modelle            | Stromwandler<br>SCT1 | Stromwandler<br>SCT3 |
| Verpackungseinheit | 1                    |                      |
| Lieferumfang       | 3                    |                      |

| Elektrische Spezifikation |          |       |
|---------------------------|----------|-------|
| Nennspannung max.         | 0,66 kV  |       |
| Isolationsspannung        | 2 kV     |       |
| Nennfrequenz              | 50/60 Hz |       |
| Bemessungsstrom           | 63 A     | 200 A |
| Genauigkeitsklasse        | Standard |       |

| Umgebungsbedingungen                            |                                                                                |
|-------------------------------------------------|--------------------------------------------------------------------------------|
| Umgebungstemperatur im Betrieb (°C)             | -25 °C ... +55 °C                                                              |
| Umgebungstemperatur bei Transport/Lagerung (°C) | -25 °C ... +70 °C                                                              |
| Relative Luftfeuchte (nicht kondensierend) (°C) | Bis zu 75 % im Jahresdurch-<br>schnitt, bis zu 95 % an bis zu 30<br>Tagen/Jahr |
| Max. Höhe (m)                                   | 2000 m über NN                                                                 |

| Anschlusskabel        |         |     |
|-----------------------|---------|-----|
| Kabelfarbe            | Schwarz |     |
| Kabeldurchmesser (mm) | 3,8 mm  |     |
| Kabellänge (m)        | 1 m     | 2 m |
| Kabelquerschnitt      | AWG 24  |     |

| Mechanische Spezifikation    |         |         |
|------------------------------|---------|---------|
| Klappwandler                 | ja      |         |
| Feuerbeständigkeit CT        | UL94-V0 |         |
| Breite (mm)                  | 23 mm   | 46 mm   |
| Tiefe (mm)                   | 26 mm   | 35 mm   |
| Höhe (mm)                    | 40 mm   | 65,4 mm |
| Öffnung (mm)                 | 10 mm   | 24 mm   |
| Gewicht inkl. Verpackung (g) | 65 g    | 250 g   |





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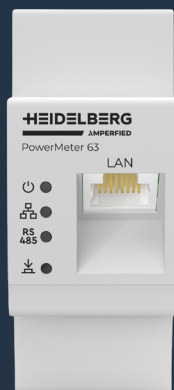
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Amperfied GmbH Gutenbergring 20 69190 Walldorf Deutschland

# POWERMETER 63 POWERMETER 200 DATA SHEET



**Amperified PowerMeter 63/200**



**Amperified Current transformer**

## **Technical highlights of the PowerMeter 63/200**

- \ Simple installation thanks to hinged transformer
- \ Decentralised measurement technology via Modbus TCP
- \ Compact design (2TE)

TECHNISCHE DATEN POWERMETER 63/200

| Product information |                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Models              | PowerMeter 63<br>PowerMeter 200                                                                                                                    |
| Packaging unit      | 1                                                                                                                                                  |
| Scope of delivery   | 1x sensor unit, installation instructions, 4x connector plugs (1x power supply plug, 1x CTs plug, 2x RS485 plug), 3x current transformers 63A/200A |

| Power supply & voltage inputs |                            |
|-------------------------------|----------------------------|
| Supply from                   | Voltage input L1/N         |
| Power consumption Pmax        | 2 W                        |
| Number of voltage inputs      | 4 (L1, L2, L3, N)          |
| Overvoltage category          | CAT III                    |
| Performance protection        | 16 A type B                |
| Measuring range               | 85 ... 250 V AC            |
| Frequency                     | 50/60 Hz ± 5 %             |
| Connection type               | Plug with push-in included |
| Connection capacity           | 0,20 ... 2,50 mm²          |

| Power inputs                   |                                                          |
|--------------------------------|----------------------------------------------------------|
| Number of power inputs         | PowerMeter 63 : 3<br>PowerMeter 200 : 3                  |
| Connection type                | Plug with push-in included                               |
| Supported current transformers | Amperfied current transformer SCT1 (63 A) / SCT3 (200 A) |

| Ethernet interface |                             |
|--------------------|-----------------------------|
| Quantity           | 1                           |
| Connection type    | RJ45 shielded               |
| Type               | 10/100 Mbit                 |
| Features           | Auto-Negotiation, Auto-MDIX |
| Max. cable length  | 100 m (CAT5)                |
| Data protocol      | Modbus TCP                  |

| Mechanical data         |                                  |
|-------------------------|----------------------------------|
| Housing material        | Glass fibre reinforced polyamide |
| Fire resistance         | UL94-V0                          |
| Protection class        | II                               |
| Degree of protection    | IP2X                             |
| Weight                  | <0,1 kg                          |
| Dimensions without plug | 88 x 35 x 65 mm                  |
| Width/mounting          | 2 TE/Top-hat rail                |

| Ambient conditions                                |                                                             |
|---------------------------------------------------|-------------------------------------------------------------|
| Ambient temperature during operation (°C)         | -25 °C ... +55 °C                                           |
| Ambient temperature during transport/storage (°C) | -25 °C ... +70 °C                                           |
| Relative humidity (non-condensing) (%)            | up to 75 % annual average, up to 95 % on up to 30 days/year |
| Max. Height (m)                                   | 2000 m above sea level                                      |

| Product safety    |                                            |
|-------------------|--------------------------------------------|
| Product standards | EN 61010-1; EN 61010-2-030; EN 61010-2-201 |

| Electromagnetic compatibility |                                |
|-------------------------------|--------------------------------|
| Product standards             | EN 61326-1, Table 2 (Industry) |

| Interference immunity            |                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| ESD (IEC 61000-4-2)              | 4 kV contact discharge<br>8 kV air discharge                                                                            |
| HF radiation (IEC 61000-4-3)     | 3 V/m<br>10 V/m with increased deviation of the measuring accuracy                                                      |
| Burst (IEC 61000-4-4)            | Mains: 4 kV<br>Ethernet: 2 kV                                                                                           |
| Surge (IEC 61000-4-5)            | L-L: 1 kV<br>L-N: 2 kV<br>Ethernet: 1 kV                                                                                |
| Conducted faults (IEC 61000-4-6) | 150 kHz ... 80 MHz,<br>10 V (Effective value)                                                                           |
| Magnetic field (IEC 61000-4-8)   | 30 A/m                                                                                                                  |
| Voltage dips (IEC 61000-4-11)    | 100 %, 20 ms (remains active)<br>60 %, 200 ms (active/restart)<br>30 %, 500 ms (active/restart)<br>100 %, 5 s (restart) |

| Radiated interference                             |                           |
|---------------------------------------------------|---------------------------|
| Interference voltage (EN 55011)                   | Mains, class B            |
| Interference current (EN 55011)                   | Ethernet, class B         |
| Electromagnetic interference radiation (EN 55011) | 30 MHz ... 1 GHz, class B |
| Harmonics (EN 61000-3-2)                          | Mains, class A            |
| Voltage fluctuations (EN 61000-3-3)               | Mains                     |

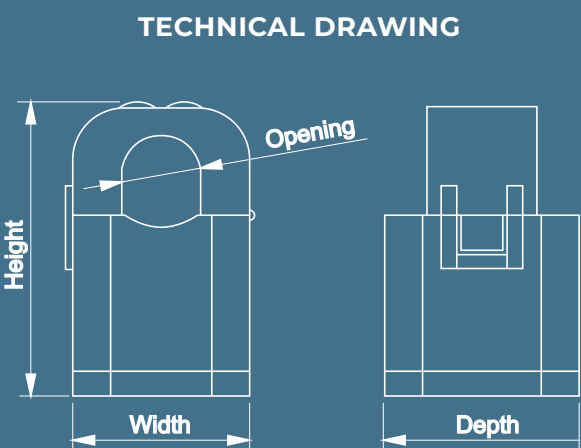
TECHNICAL DATA CURRENT TRANSFORMER SCT1/SCT3

| Product information      |                                      |                                      |
|--------------------------|--------------------------------------|--------------------------------------|
| Models                   | Current trans-<br>former <b>SCT1</b> | Current trans-<br>former <b>SCT3</b> |
| Packaging unit           | 1                                    |                                      |
| Scope of delivery        | 3                                    |                                      |
| Electrical specification |                                      |                                      |
| Nominal voltage max.     | 0,66 kV                              |                                      |
| Insulation voltage       | 2 kV                                 |                                      |
| Nominal frequency        | 50/60 Hz                             |                                      |
| Rated current            | 63 A                                 | 200 A                                |
| Accuracy class           | standard                             |                                      |

| Ambient conditions                                |                                                             |
|---------------------------------------------------|-------------------------------------------------------------|
| Ambient temperature during operation (°C)         | -25 °C ... +55 °C                                           |
| Ambient temperature during transport/storage (°C) | -25 °C ... +70 °C                                           |
| Relative humidity (non-condensing) (°C)           | up to 75 % annual average, up to 95 % on up to 30 days/year |
| Max. Height (m)                                   | 2000 m above sea level                                      |

| Connection cable    |              |
|---------------------|--------------|
| Cable colour        | black        |
| Cable diameter (mm) | 3,8 mm       |
| Cable length (m)    | 1 m      2 m |
| Cable cross-section | AWG 24       |

| Mechanical specification   |         |         |
|----------------------------|---------|---------|
| Folding transducer         | yes     |         |
| Fire resistance CT         | UL94-V0 |         |
| Width (mm)                 | 23 mm   | 46 mm   |
| Depth (mm)                 | 26 mm   | 35 mm   |
| Height (mm)                | 40 mm   | 65,4 mm |
| Opening (mm)               | 10 mm   | 24 mm   |
| Weight incl. packaging (g) | 65 g    | 250 g   |





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**DO YOU HAVE ANY QUESTIONS?**

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