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# Accessories for the mobile Power Quality Analyzers

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## Rogowski Coils & Current Clamps

Rogowski Coils: 1A to 3.000A RMS, Accuracy: 1%
Size: 61 cm (24“), set of 4 pieces, Diameter = 194mm, Rogowski clamp head = 9,9mm, Frequency range: 10Hz to 20kHz

111.7001



Rogowski Coils: 1A to 6.000A RMS, Accuracy: 1%
Size: 91 cm (36“), set of 4 pieces, Diameter = 290mm, Rogowski clamp head = 9,9mm, Frequency range: 10Hz to 20kHz

111.7006



Rogowski Coils: 5A to 8.000A RMS, Accuracy: 1%
Size: 152 cm (60“), set of 4 pieces, Diameter = 485mm, Rogowski clamp head = 9,9mm, Frequency range: 10Hz to 20kHz

111.7009.05



Rogowski Coils: 1A to 3.000A RMS, Accuracy: 1%
Size: 40 cm (16“), set of 4 pieces, Diameter = 127 mm, Rogowski clamp head = 9 mm, Frequency range: 40Hz to 20kHz

111.7030



Rogowski Coils: 1A to 500A RMS, Accuracy: 1%
Size: 22 cm (9“ ), set of 4 pieces, Diameter = 70mm, Rogowski clamp head = 6,1mm, Frequency range: 10Hz to 50kHz

111.7085



Current clamp: 4 probes CAT III 600V, MU-Metal clamp with two switchable measurement ranges (0…20A…200A), 15 mm inner diameter, set of 4 pieces
(high precision – low angle error)

111.7015



Current clamp: 4 probes CAT III 600V, 15 mm inner diameter, set of 4 pieces
Measurement range 0…50A

111.7035



Current clamp: 3 probes CAT III 600V, MU-Metal Current clamp, 15 mm inner diameter
set of 3 pieces, (special export edition), measurement range 0…20A

111.7003



Current clamp: one probe, 10mA…5A (100mV/A) AC, 4 mm banana plugs
(Adapter cable, order code 111.7004 is necessary)

111.7043



Current measurement: Extension cable for current clamps & Rogowski Coils
5m length, for 7-pole Amphenol plug, IP65

111.7025



Current measurement: Adapter cable set, with 4 mm banana plugs
for connection of AC / DC clamp (111.7020) and other manufacturer.

111.7004



Differential current clamp - Set
Two ranges: 4A / 400A AC (1mV/mA; 1mV/A) min. 0,5mA; inkl. 2 x 111.7019
diameter current clamp 112 mm / 1,5m connection cable with 4mm safety plug
Impdedance >= 10mOhm

111.7098.10



Current measurement: AC / DC Current clamp (set) for PQ-Box
1x Current clamp with switchable measurement ranges 60A / 600 A (600mV output),
1x power supply for permanent supply. Adapter cable set (111.7004) is needed for connection with PQ-Box

111.7099



## Accessories voltage measurement

Accessories voltage measurement: Magnetic voltage probe, 6mm With 4 mm safety plug
(3 x black, 1 x blue) 6mm

111.7008



Accessories voltage measurement: Magnetic voltage probe, 6mm with 4 mm safety plug
(3 x black, 1 x blue) 6mm

111.7045



Universal adapter for the power socket/outlet. For worldwide use with 4mm safety sockets

582.0509



Accessories voltage measurement: Grip F – voltage tap
Adjustable voltage tap for power bars, 0..30mm

111.7053



Accessories voltage measurement: Clutch – voltage tap
Voltage tap for fast and reliable contact of pins / bolt

111.7065



Accessories voltage measurement: Spring Grabber– voltage tap
Voltage tap for fast and reliable contact of pins / bolts

111.7066



Accessories voltage measurement: Test Tap – voltage tap
Voltage tap for fast and reliable contact of sockets

111.7067



Accessories voltage measurement: Dolphin clamps
For tapping the measuring voltage for the PQ-Box.
The set contains: 3x red, 1x blue, 1x green clamps 1000 V, CAT III / 32 A



111.7024

Accessories voltage measurement: Extension of measuring lead
To extant the measuring lead of the PQ-Box. Length: 2m. Colours: Black



111.7054.00

Accessories voltage measurement: Extension of measuring lead
To extant the measuring lead of the PQ-Box. Length: 2m. Colours: Red



111.7054.01

Accessories voltage measurement: Extension of measuring lead
To extant the measuring lead of the PQ-Box. Length: 2m. Colours: Blue



111.7054.02

Accessories voltage measurement: Label set for measurement stripes
Label set, different colored, to tag measurement stripes for international use.



111.7044

Accessories voltage measurement: Measuring adapter 400V, CAT III
Adapter 5-phases including plug (32 A) and conductor to measure the voltage
and current values. 4 mm banana plugs to connect measurement stripes



111.7042

Accessories voltage measurement: Measuring adapter 400V, CAT III
Adapter 5-phases including plug (16 A) and conductor to measure the voltage
and current values. 4 mm banana plugs to connect measurement stripes



111.7068

Accessories voltage measurement: Measuring adapter, 3-phase, 230V, CAT II
Adapter 3-phases including plug and conductor to measure the voltage and current values. 4 mm banana plugs to connect measurement stripes.



111.7056

Accessories voltage measurement: Test plug
With 4 mm safety banana sockets for voltage. Measurement at 16A CEE socket.



111.7072

Accessories voltage measurement: Test plug
With 4 mm safety banana sockets for voltage. Measurement at 32A CEE socket.



111.7073

## Accessories time sync

Accessories time sync:
Radio controlled GPS-clock with RS232 for PQ-Box
Uh: H1 or H2, with accessory, H1: external AC 85V…110V...264V/DC 88V...220V...280V

111.9024.47



Accessories time sync:
Radio controlled GPS-clock with RS232 for PQ-Box
Uh: H1 or H2, with accessory, H2: external DC 18V ... 60V ... 72V

111.9024.48



Spare parts, others: DCF 77 Radio controlled clock for PQ-Box 150/200/300 incl. rotating wall holder, connection cable and documentation, output: RS232.
(Replaces the previous power supply unit 111.7069)

111.9024.01



## Accessories communication

Accessories communication:
Mobile radio connection for TCP interface, To connect the PQ-Box 150/200/300 via mobile radio
Basic Unit with internal LTE modem

111.9030.80



Accessories communication:
Mobile radio connection for TCP interface, To connect the PQ-Box 150/200/300 via mobile radio
UTS Stick Key for PC

111.9030.70



Accessories communication:
Mobile radio connection for TCP interface, To connect the PQ-Box 150/200/300 via mobile radio
Antenna, 8m cable

111.9030.59



Accessories communication:
Mobile radio connection for TCP interface, To connect the PQ-Box 150/200/300 via mobile radio
Extension, 10m

111.9030.60



## Spare parts

Weather protection cover for PQ-Box 50 and PQ-Box 150
Protection of the PQ-Box against strong water
Suspension strap for PQ Box

564.0517



Spare parts, others: LEMP Isolation cover for PQ-Box (small) to cover measurement
equipment during recording at house connection-box. A simple and really rough
case of a weak and steady isolation ma-terial allows a maximum way of safety.
The cover could be locked by a locker, cable connector or seal at the cable sleeves.
Dimensions: 470x300x240 mm

111.7071



Spare parts, others: LEMP Isolation cover for PQ-Box (large) to cover measurement equipment during recording at house connection-box. A simple
and really roughcase of a weak and steady isolation material allows a maximum
way of safety. The cover could be locked by a locker, cable connector or seal at
the cable sleeves.
Dimensions: 735x435x240 mm

111.7086



Neodym magnet: suitable for hanging a PQ-Box 50 or 150

564.0505.01



Spare parts, others: Calib Box II: Calibration set for PQ-Box 100/150/200/300
for connecting a calibrator (default 230V). Adjustment of all U / I inputs via software
with report. (Replaces the previous Calib Box 111.7039)

111.7039.10



Spare parts, others: Carrying box with forms for PQ-Box 50 and accessories.
Case dimensions: 450x 360x 123mm. Plastic material, color black, weight 1500 g.

582.0040



Spare parts, others: Protection cover for PQ-Box 50.
A simple and really rough case to protect your PQ-Box 50. Material color: black.

564.0515



Spare parts, others: Battery pack for PQ-Box 50

570.0015



Spare parts, others: Carrying box with forms for PQ-Box 150 and accessories.
Case dimensions: 534x 427x 157mm. Plastic material, weight 3.900 g.

582.0038



Spare parts, others: Carrying box with forms for PQ-Box 50 and accessories.
Case dimensions: 450x 360x 123mm. Plastic material, color black, weight 1500 g.

582.0035



Spare parts, others: Protection braces for PQ-Box 200
with set of 2 pieces with strap; Material color orange.

564.0510



Spare parts, others: Carrying box with forms for PQ-Box 300 and accessories,
case dimensions 534x 427x 157mm; Material color orange

582.0039



Spare parts, others: Protection braces for PQ-Box 300, set of 2 pieces with strap, material
color: black.

564.0514



Locker for PQ-Box 150/200/300 with steel cable (length 1,8 m) to lash PQ-Box 150/200/300.

111.7032



Spare parts, others: Adapter cable set for PQ-Box 200/300, with 4 mm banana plugs for
connection of AC / DC clamp (111.7020) and other manufacturer.

111.7028



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| Spare parts, others: Irradiance sensor and temperature probe for PQ-Box 200/300.<br>Measurement range: 0..1000W/m², -30..70°C, 0..1V.<br>The power supply 111.7049 is required additionally and has to be ordered separately.<br><br>111.7040 |  |
| Spare parts, others: Temperature sensor probe for PQ-Box 200/300.<br>Measurement range: 20..80°C – 0..1V.<br>The power supply 111.7049 is required additionally and has to be ordered separately.<br><br>111.7041 |  |
| Spare parts, others: Power supply 230V AC, Output 15V DC, 400 mA.<br><br>111.7049 |  |
| Spare parts, others: Wide range power supply for PQ-Box 150/200/300<br>Range: 88V … 500V AC / 100V …400V DC; 600V CAT IV, IP 65, Jack plug,<br>Output: 15V DC, 1000mA.<br><br>111.7069 |  |
| Spare parts, others: Adapter cable: Between power supply and PQ-Box. If you want to use an<br>power supply (111.7069) on a box with M8 DC plug, you will need this adapter.<br><br>582.0293.10 |  |

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| Spare parts, others: Adapter cable: Angled adater plug; For a PQ-Box with M8 DC socket and power supply unit with jack plug. This adapter can remain firmly on the PQ-Box.<br><br>582.0293.11 |  |
| Spare parts, others: Adapter cable: Between power supply and PQ-Box. If you connect a<br>power supply (111.7089) to an box with Jack plug, you need this adapter.<br><br>582.0293.20 |  |
| Spare parts, others: Adapter cable: As a junction at a measuring point. For use with<br>power supply you need two pieces.<br><br>582.2037 |  |
| Spare parts, others: Battery pack for PQ-Box 150/200/300<br><br>570.0011 |  |
| Spare parts, others: Micro-SD-card 4GB for PQ-Box 150/200/300<br><br>900.9098.04 |  |
| Spare parts, others: Micro-SD-card 8GB for PQ-Box 150/200/300<br><br>900.9098.08 |  |

| Service |
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| Service: Factory calibration current clamp set (No adjustment)<br>Measurement points: 1A, 5A, 10A<br><br>200.0101 |
| Service: Factory calibration rogowski coil set (No adjustment)<br>Measurement points: 250A, 500A, 1000A<br><br>200.0102 |
| Service: DAkkS calibration certificate basic data for PQ box (50, 150, 200, 300) and mini current clamp set<br>Voltages, currents and power.<br>Calibration laboratory checked and sent back with a detailed test report.<br>by an external calibration laboratory and returned with report document.<br><br>200.0202 |
| Service: DAkkS calibration certificate basic data for PQ-Box (50, 150, 200, 300) and Rogowski clamp set<br>Voltages, currents and power.<br>Calibration laboratory checked and sent back with a detailed test report.<br><br>200.0203 |
| Service: DAkkS calibration certificate for PQ box (150, 200, 300) and mini current clamp set<br>Extensive calibration certificate including all harmonics and supraharmonics up to 9kHz for voltages and currents<br>Calibration laboratory checked and sent back with a detailed test report.<br><br>200.0204 |

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| Service: DAkkS calibration certificate for PQ box (150, 200, 300) and Rogowski clamp set<br>Extensive calibration certificate including all harmonics and supraharmonics up to 9kHz for voltages and currents<br>Calibration laboratory checked and sent back with a detailed test report.<br><br>200.0205 |
| Service: DAkkS calibration certificate for PQ-Box (150, 200, 300) including current clamp set and Rogowski clamp set.<br>Very extensive calibration certificate including all harmonics and supraharmonics up to 9kHz for voltages and currents for both current clamp sets<br>Calibration laboratory checked and sent back with a detailed test report.<br><br>200.0206 |
| Service: PQ-Box 100, Service package I, Recalibration with certificate and inspection sticker<br><br>200.0001 |
| Service: PQ-Box 100, Service package II<br>Recalibration with certificate and inspection sticker, new accu, new SD-card, 2GByte.<br><br>200.0002 |
| Service: PQ-Box 50, Service package I, Recalibration with certificate and inspection sticker.<br><br>200.0013 |

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| Service: PQ-Box 150, Service package I, Recalibration with certificate and inspection sticker<br><br>200.0031 |
| Service: PQ-Box 200, Service package I, Recalibration with certificate and inspection sticker<br><br>200.0011 |
| Service: PQ-Box 300, Service package I, Recalibration with certificate and inspection sticker<br><br>200.0012 |

| Upgrade |
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| Upgrade: PQ-Box 50: Basic (B0) to Light (B1)<br>Note: serial number required.<br><br>900.9298 |
| Upgrade: PQ-Box 50: Light (B1) to Expert (B2)<br>Note: serial number required.<br><br>900.9299 |
| Upgrade: PQ-Box 50: Basic (B0) to Expert (B2)<br>Note: serial number required.<br><br>900.9297 |
| Upgrade: PQ-Box 50: Ripple control analysis (R0) to (R1)<br>Note: serial number required.<br><br>900.9296 |
| Upgrade: PQ-Box 100: Basic (B0) to Light (B1).<br>Note: serial number required.<br><br>900.9090 |
| Upgrade: PQ-Box 100: Light (B1) to Expert (B2).<br>Note: serial number required.<br><br>900.9091 |
| Upgrade: PQ-Box 100: Basic (B0) to Expert (B2).<br>Note: serial number required.<br><br>900.9093 |

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| Upgrade: PQ-Box 100: Ripple control analysis (R0) to (R1).<br>Note: serial number required.<br><br>900.9092 |
| Upgrade: PQ-Box 150: Basic (B3) to Basic+ (B2)<br>Note: serial number required.<br><br>900.9398 |