








**Accessories for the mobile Power  
Quality Analyzers**  
**PQ-Box 100 & 150 & 200 & 300**






Jun-18



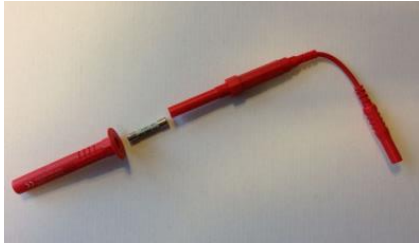


Accessoires	
<p><b><u>Rogowski coil set CAT IV 600V</u></b></p> <p>Current range: 1A to 3000A RMS, Accuracy: 1%                      size: 61 cm ( 24" ), <u>set of 4 pieces</u>                      Diameter = 194mm, Rogowski clamp head = 9,9mm                      Frequency range: 10Hz to 20kHz</p> <p><b>Order code: 111.7001</b></p>	
<p><b><u>Rogowski coil set CAT IV 600V</u></b></p> <p>Current range: 1A to 6000A RMS, Accuracy: 1%                      size: 91 cm ( 36" ), <u>set of 4 pieces</u>                      Diameter = 290mm, Rogowski clamp head = 9,9mm                      Frequency range: 10Hz to 20kHz</p> <p><b>Order code: 111.7006</b></p>	
<p><b><u>Rogowski coil set CAT IV 600V</u></b></p> <p>Current range: 1A to 1500A RMS, Accuracy: 1%                      size: 40 cm ( 16" ), <u>set of 4 pieces</u>                      Diameter = 127 mm, Rogowski clamp head = 9 mm                      Frequency range: 40Hz to 20kHz</p> <p><b>Order code: 111.7030</b></p>	
<p><b><u>Rogowski coil set CAT IV 600V</u></b></p> <p>Current range: 1A to 3000A RMS, Accuracy: 1%                      size: 60cm ( 24" ), <u>set of 4 pieces</u>                      Diameter = 190mm, Rogowski clamp head = 9mm                      Frequency range: 40Hz to 20kHz</p> <p><b>Order code: 111.7036</b></p>	
<p><b><u>Rogowski coil set CAT IV 600V</u></b></p> <p>Current range: 1A to 500A RMS; Accuracy: 1%                      size: 22 cm ( 9" ), <u>set of 4 pieces</u>                      Diameter = 70mm, Rogowski clamp head = 6,1mm                      Frequency range: 10Hz to 50kHz</p> <p><b>Order code: 111.7085</b></p>	






Accessoires	
<p><b><u>Current clamp 4 probes CAT III 600V</u></b></p> <p>MU-Metal clamp with two switchable measurement ranges, 15 mm inner diameter, <u>set of 4 pieces</u> (high precision – low angle error) Switchable measurement range 0...20A...200A</p> <p><b>Order code: 111.7015</b></p>	
<p><b><u>Current clamp 4 probes CAT III 600V</u></b></p> <p>Current clamp, 15 mm inner diameter, <u>set of 4 pieces</u> Measurement range 0...50A</p> <p><b>Order code: 111.7035</b></p>	
<p><b><u>Current clamp 3 probes CAT III 600V</u></b></p> <p>MU-Metal Current clamp, 15 mm inner diameter <u>set of 3 pieces</u> , (special export edition) Measurement range 0...20A</p> <p><b>Order code: 111.7003</b></p>	

Accessoires	
<p><b><u>Extension cable</u></b></p> <p>for current clamps &amp; Rogowski Coils 5m length, for 7-pole Amphenol plug, IP65</p> <p><b>Order code: 111.7025</b></p>	
<p><b><u>Adapter cable set</u></b></p> <p>with 4 mm banana plugs for connection of AC / DC clamp (111.7020) and other manufacturer</p> <p><b>Order code: 111.7004</b></p>	
<p><b><u>Current clamp one probe:</u></b></p> <p>10mA...5A (100mV/A) AC, 4 mm banana plugs <i>Note: Adapter cable, order code 111.7004 is necessary</i></p> <p><b>Order code: 111.7043</b></p>	

<b>Accessoires</b>	
<p><b><u>AC / DC Current clamp (set)</u></b></p> <p>One Current clamp with switchable measurement ranges 60A / 600 A (600mV output), power supply for permanent supply and two 4mm adapter sockets for adapter cable set.</p> <p>The adapter cable set 111.7004 is required additionally and has to be ordered separately.</p> <p><b>Order code: 111.7020</b></p>	
<p><b><u>Magnetic voltage probe, 7mm</u></b></p> <p>with 4 mm safety plug (3 x red,1 x blue) 7mm</p> <p><b>Order code: 111.7008</b></p>	
<p><b><u>Magnetic voltage probe, 6mm</u></b></p> <p>with 4 mm safety plug (3 x black, 1 x blue) 6mm</p> <p><b>Order code: 111.7045</b></p>	
<p><b><u>Test plug</u></b></p> <p>with 4 mm safety banana sockets for voltage Measurement at grounding receptacle European socket</p> <p><b>Order code: 582.0511</b></p>	
<p><b><u>Test plug</u></b></p> <p>with 4 mm safety banana sockets for voltage Measurement at grounding receptacle universal socket</p> <p><b>Order code: 582.0509</b></p>	

Accessoires	
<p><b><u>Variogrip – voltage tap</u></b></p> <p>Adjustable voltage tap for hexagon socket screws, 5mm.</p> <p><b>Order code: 111.7051</b></p>	
<p><b><u>Variogrip – voltage tap</u></b></p> <p>Adjustable voltage tap for hexagon socket screws, 6mm.</p> <p><b>Order code: 111.7052</b></p>	
<p><b><u>Grip F – voltage tap</u></b></p> <p>Adjustable voltage tap for power bars, 0..30mm</p> <p><b>Order code: 111.7053</b></p>	
<p><b>Clutch – voltage tap</b></p> <p>Voltage tap for fast and reliable contact of pins / bolts</p> <p><b>Order code: 111.7065</b></p>	
<p><b>Spring Grabber– voltage tap</b></p> <p>Voltage tap for fast and reliable contact of pins / bolts</p> <p><b>Order code: 111.7066</b></p>	
<p><b>Test Tap – voltage tap</b></p> <p>Voltage tap for fast and reliable contact of sockets</p> <p><b>Order code: 111.7067</b></p>	

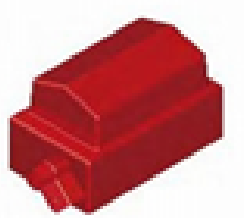


Accessoires	
<p><b><u>Fuse voltage probe</u></b></p> <p>High performance fuse (1A) with both sides 4mm banana plugs usage with voltage measurement cables of PQ-Box 100.</p> <p><b>Order code: 111.7014 .02</b></p>	
<p><b><u>Dolphin clamps</u></b></p> <p>For tapping the measuring voltage for the PQ-Box. The set contains: 3x red, 1x blue, 1x green clamps 1000 V, CAT III / 32 A</p> <p><b>Order code: 111.7024</b></p>	
<p><b><u>Extension of measuring lead</u></b></p> <p>To extant the measuring lead of the PQ-Box. Length: 2m</p> <p><b>Order code: 111.7054.00, black</b> <b>111.7054.01, red</b> <b>111.7054.02, blue</b></p>	

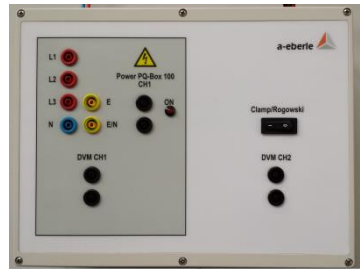

Accessoires	
<p><b><u>Label set for measurement stripes</u></b></p> <p>Label set, different colored, to tag measurement stripes for international use.</p> <p><b>Order code: 111.7044</b></p>	
<p><b><u>Cable set with banana plugs</u></b></p> <p>Cable set, 4- phases , 1,5mm<sup>2</sup>, 2m length, 4x Fuses 16A, 4x 4mm safety plug</p> <p><b>Order code: 111.7038</b></p>	
<p><b><u>Contact holder with fuse</u></b></p> <p>contact holder , 1 - phase, 35-240mm<sup>2</sup>, 1 x Fuse 16 A</p> <p><b>Order code: 111.7037</b></p>	
<p><b><u>Measuring adapter 400V, CAT III</u></b></p> <p>Adapter 5-phases including plug (32 A) and conductor to measure the voltage and current values. 4 mm banana plugs to connect measurement stripes</p> <p><b>Order code: 111.7042</b></p>	
<p><b><u>Measuring adapter 400V, CAT III</u></b></p> <p>Adapter 5-phases including plug (16 A) and conductor to measure the voltage and current values. 4 mm banana plugs to connect measurement stripes</p> <p><b>Order code: 111.7068</b></p>	






Accessoires	
<p><b><u>Measuring adapter, 3-phase, 230V, CAT II</u></b></p> <p>Adapter 3-phases including plug and conductor to measure the voltage and current values. 4 mm banana plugs to connect measurement stripes</p> <p><b>Order code: 111.7056</b></p>	
<p><b><u>Test plug</u></b></p> <p>with 4 mm safety banana sockets for voltage Measurement at 16A CEE socket</p> <p><b>Order code: 111.7072</b></p>	
<p><b><u>Test plug</u></b></p> <p>with 4 mm safety banana sockets for voltage Measurement at 32A CEE socket</p> <p><b>Order code: 111.7073</b></p>	
<p><b><u>GPS Clock for PQ-Box</u></b></p> <p>radio controlled GPS-clock, RS232 for PQ-Box U<sub>n</sub>: H1 or H2, with accessory</p> <p><b>Order code: 111.9024.47 (H1)</b> H1: external AC 85V...110V...264V/DC88V...220V...280V</p> <p><b>Order code: 111.9024.48 (H2)</b> H2: external DC 18V ... 60V ... 72V</p>	


Accessoires																									
<p><b><u>USB – RJ45 extension cable</u></b></p> <p>Extension of USB cable via RJ 45, max 45m</p> <p><b>Order code: 111.9030.51</b></p>																									
<p><b><u>USB - Ethernet Adapter</u></b></p> <p>for remote readout (only PQ-Box 100)</p> <p><b>Order code: 111.9030.43</b></p>																									
<p><b><u>UMTS connection for TCP interface</u></b></p> <p>To connect the PQ-Box 150/200/300 via UMTS</p> <p><b>Order code:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"><b>Basic Unit:</b></td> <td style="width: 60%;">Tosibox Lock,</td> <td style="width: 25%; text-align: right;">111.9030.55</td> </tr> <tr> <td><b>Stick:</b></td> <td>Tosibox Key,</td> <td style="text-align: right;">111.9030.56</td> </tr> </table> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"><b>Modem:</b></td> <td style="width: 60%;">USB-UMTS(3G) Modem,</td> <td style="width: 25%; text-align: right;">111.9030.54</td> </tr> <tr> <td></td> <td>Antenna adapter (3G),</td> <td style="text-align: right;">111.9030.58</td> </tr> <tr> <td></td> <td>USB-LTE (4G) Modem,</td> <td style="text-align: right;">111.9030.63</td> </tr> <tr> <td></td> <td>Antenna adapter (4G),</td> <td style="text-align: right;">111.9030.64</td> </tr> </table> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"><b>Antenna:</b></td> <td style="width: 60%;">Antenna, 8m cable,</td> <td style="width: 25%; text-align: right;">111.9030.59</td> </tr> <tr> <td></td> <td>Extension, 10m,</td> <td style="text-align: right;">111.9030.60</td> </tr> </table>	<b>Basic Unit:</b>	Tosibox Lock,	111.9030.55	<b>Stick:</b>	Tosibox Key,	111.9030.56	<b>Modem:</b>	USB-UMTS(3G) Modem,	111.9030.54		Antenna adapter (3G),	111.9030.58		USB-LTE (4G) Modem,	111.9030.63		Antenna adapter (4G),	111.9030.64	<b>Antenna:</b>	Antenna, 8m cable,	111.9030.59		Extension, 10m,	111.9030.60	
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Accessoires	
<p><b><u>LEMP Isolation cover</u></b></p> <p>Small LEMP Isolation cover for PQ-Box 100 (only!) to cover measurement equipment during recording at the house connection box.</p> <p>A simple and really rough case 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.</p> <p><b>Dimensions: 450x 250x250 mm</b></p> <p><b>Order code: 111.7012</b></p>	
<p><b><u>LEMP Isolation cover for PQ-Box, small</u></b></p> <p>LEMP Isolation cover for PQ-Box to cover measurement equipment during recording at house connection-box.</p> <p>A simple and really rough case 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.</p> <p><b>Dimensions: 470x300x240 mm</b></p> <p><b>Order code: 111.7071</b></p>	
<p><b><u>LEMP Isolation cover for PQ-Box, large</u></b></p> <p>LEMP Isolation cover for PQ-Box to cover measurement equipment during recording at house connection-box.</p> <p>A simple and really rough case 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.</p> <p><b>Dimensions: 735x435x240 mm</b></p> <p><b>Order code: 111.7086</b></p>	

Accessoires	
<p><b><u>Calib Box</u></b>                      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</p> <p><b>Order code: 111.7039</b></p>	
<p><b><u>DKD calibration of PQ-Box and accessories</u></b>                      Depending on the complexity of the desired measurement points and test accessories.                      The PQ-Box, current clamp and / or rogowski coil is checked by an external calibration laboratory and returned with report document.</p> <p><b>Order code: 200.0010</b></p>	
<p><b><u>Calibration current clamp set</u></b>                      Measurement points: 1A, 5A, 10A</p> <p><b>Order code: 200.0101</b></p>	<p><b>Prüfbescheinigung</b></p> <p><b>Test certificate</b></p>
<p><b><u>Calibration rogowski coil set</u></b>                      Measurement points: 250A, 500A, 1000A</p> <p><b>Order code: 200.0102</b></p>	<p><b>Prüfbescheinigung</b></p> <p><b>Test certificate</b></p>



Accessories	
<p><b><u>Carrying box PQ-Box 100</u></b></p> <p>Carrying box with forms for PQ-Box 100 and accessories. Case dimensions 534x 427x 157mm Plastic material, Weight 3.900 g</p> <p><b>Order code: 582.0033</b></p>	
<p><b><u>Carrying bag PQ-Box 100</u></b></p> <p>Carrying bag, textile with forms for PQ-Box 100 and accessories Bag dimensions 420x 340x 85mm Weight 1.300 g</p> <p><b>Order code: 582.0032.01</b></p>	
<p><b><u>Protection cover</u></b></p> <p>Protection cover for PQ-Box 100 A simple and really rough case to protect your PQ-Box 100. Material color orange</p> <p><b>Order code: 564.0500</b></p>	



<b>Accessoires</b>	
<p><b><u>PQ-Box 100 Upgrade</u></b>                      Basic (B0) to Light (B1)  <b>Order code: 900.9090</b>                      Note: serial number required</p>	<p><u>PQ-Box 100</u></p> <hr/> <p><b>PQ-Box 100                      Upgrade: Basic - Light                      Feature: B1</b></p>
<p><b><u>PQ-Box 100 Upgrade</u></b>                      Light (B1) to Expert (B2)  <b>Order code: 900.9091</b>                      Note: serial number required</p>	<p><u>PQ-Box 100</u></p> <hr/> <p><b>PQ-Box 100                      Upgrade: Light to Expert                      Feature: B2</b></p>
<p><b><u>PQ-Box 100 Upgrade</u></b>                      Basic (B0) to Expert (B2)  <b>Order code: 900.9093</b>                      Note: serial number required</p>	<p><u>PQ-Box 100</u></p> <hr/> <p><b>PQ-Box 100                      Upgrade: Basic to Expert                      Feature: B2</b></p>
<p><b><u>PQ-Box 100 Upgrade</u></b>                      Ripple control analysis (R0) to (R1)  <b>Order code: 900.9092</b>                      Note: serial number required</p>	<p><u>PQ-Box 100</u></p> <hr/> <p><b>PQ-Box 100                      Upgrade: RSA                      Feature: R1</b></p>
<p><b><u>PQ-Box 100, Service package I</u></b>                      Recalibration with certificate and inspection sticker  <b>Order code: 200.0001</b></p>	<p><b>Prüfbescheinigung</b></p> <p><b>Test certificate</b></p>
<p><b><u>PQ-Box 100, Service package II</u></b>                      Recalibration with certificate and inspection sticker                      New Akku                      New SD-Karte, 2GByte  <b>Order code: 200.0002</b></p>	<p><b>Prüfbescheinigung</b></p> <p><b>Test certificate</b></p>




Zubehör	
<p><b><u>Carrying box PQ-Box 150</u></b></p> <p>Carrying box with forms for PQ-Box 150 and accessories. Case dimensions 534x 427x 157mm Plastic material, Weight 3.900 g</p> <p><b>Order code: 582.0038</b></p>	
<p><b><u>PQ-Box 150 Upgrade</u></b> Basic (B3) to Basic+(B2) <b>Order code: 900.9398</b> Note: serial number required</p>	<p>PQ-Box 150</p> <hr/> <p><b>PQ-Box 150</b> <b>Upgrade: Basic – Basic+</b> <b>Feature: B2</b></p>
<p><b><u>PQ-Box 150 Upgrade</u></b> Basic+ (B2) to Light(B0) <b>Order code: 900.9390</b> Note: serial number required</p>	<p>PQ-Box 150</p> <hr/> <p><b>PQ-Box 150</b> <b>Upgrade: Basic+ - Light</b> <b>Feature: B0</b></p>
<p><b><u>PQ-Box 150 Upgrade</u></b> Light (B0) to Expert(B1) <b>Order code: 900.9391</b> Note: serial number required</p>	<p>PQ-Box 150</p> <hr/> <p><b>PQ-Box 150</b> <b>Upgrade: Light to Expert</b> <b>Feature: B1</b></p>
<p><b><u>PQ-Box 150 Upgrade</u></b> Basic+ (B2) auf Expert(B1) <b>Order code: 900.9393</b> Note: serial number required</p>	<p>PQ-Box 150</p> <hr/> <p><b>PQ-Box 150</b> <b>Upgrade: Basic+ to Expert</b> <b>Feature: B1</b></p>

Zubehör	
<p><b><u>PQ-Box 150 Upgrade</u></b>                      Ripple control analyses (R0) to (R1)  <b>Order code: 900.9392</b>                      Note: serial number required</p>	<p><u>PQ-Box 150</u>  <b>PQ-Box 150                      Upgrade: RSA                      Feature: R1</b></p>
<p><b><u>PQ-Box 150 Upgrade</u></b>                      Wifi (S0) to (S1)  <b>Order code: 900.9397</b>                      Note: serial number required</p>	<p><u>PQ-Box 150</u>  <b>PQ-Box 150                      Upgrade: Wifi                      Feature: S1</b></p>
<p><b><u>PQ-Box 150, Service package I</u></b>                      Recalibration with certificate and inspection sticker  <b>Order code: 200.0031</b></p>	<p><b>Prüfbescheinigung</b>   <b>Test certificate</b></p>







<b>Accessoires</b>	
<p><b><u>Carrying box PQ-Box 200</u></b></p> <p>Carrying box with forms for PQ-Box 200 and accessories Case dimensions 534x 427x 157mm plastic material, weight 3.900 g</p> <p><b>Order code: 582.0035</b></p>	
<p><b><u>Protection braces for PQ-Box 200</u></b></p> <p>Protection braces for PQ-Box 200 set of 2 pieces with strap, Material color orange</p> <p><b>Order code: 564.0510</b></p>	
<p><b><u>PQ-Box 200 Upgrade</u></b></p> <p>Ripple control analyses (R0) auf (R1)</p> <p><b>Order code: 900.9094</b></p> <p>Note: serial number required</p>	<p style="text-align: center;">PQ-Box 200</p> <hr style="width: 20%; margin: auto;"/> <p><b>PQ-Box 200 Upgrade: RSA Feature: R1</b></p>
<p><b><u>PQ-Box 200 Upgrade</u></b></p> <p>Wifi (S0) to (S1)</p> <p><b>Order code: 900.9396</b></p> <p>Note: serial number required</p>	<p style="text-align: center;">PQ-Box 200</p> <hr style="width: 20%; margin: auto;"/> <p><b>PQ-Box 200 Upgrade: Wifi Feature: S1</b></p>
<p><b><u>PQ-Box 200 Upgrade</u></b></p> <p>Transient measuring board (T0) auf (T1)</p> <p><b>Order code: 200.0020</b></p> <p>Note: device must be sent in for retrofitting</p>	<p style="text-align: center;">PQ-Box 200</p> <hr style="width: 20%; margin: auto;"/> <p><b>PQ-Box 200 Upgrade: Transientenkarte Feature: T1</b></p>
<p><b><u>PQ-Box 200, Service package I</u></b></p> <p>Recalibration with certificate and inspection sticker</p> <p><b>Order code: 200.0011</b></p>	<p><b>Prüfbescheinigung</b></p> <p><b>Test certificate</b></p>

<b>Accessoires</b>	
<p><b><u>Carrying box PQ-Box 300</u></b></p> <p>Carrying box with forms for PQ-Box 300 and accessories Case dimensions 534x 427x 157mm plastic material, Weight 3.900 g</p> <p><b>Order code: 582.0039</b></p>	
<p><b><u>Protection braces for PQ-Box 300</u></b></p> <p>Protection braces for PQ-Box 300 set of 2 pieces with strap, Material color black</p> <p><b>Order code: 564.0514</b></p>	
<p><b><u>PQ-Box 300 Upgrade</u></b></p> <p>Ripple control analyses (R0) auf (R1)</p> <p><b>Order code: 900.9394</b></p> <p>Note: serial number required</p>	<p><u>PQ-Box 300</u></p> <p><b>PQ-Box 300 Upgrade: RSA Feature: R1</b></p>
<p><b><u>PQ-Box 200 Upgrade</u></b></p> <p>Wifi (S0) to (S1)</p> <p><b>Order code: 900.9395</b></p> <p>Note: serial number required</p>	<p><u>PQ-Box 300</u></p> <p><b>PQ-Box 300 Upgrade: Wifi Feature: S1</b></p>
<p><b><u>PQ-Box 300, Service package I</u></b></p> <p>Recalibration with certificate and inspection sticker</p> <p><b>Order code: 200.0012</b></p>	<p><b>Prüfbescheinigung</b></p> <p><b>Test certificate</b></p>

Accessoires	
<p><b><u>Carrying bag PQ-Box 150/200/300</u></b></p> <p>Carrying bag textile with forms for PQ-Box 150/200/300 and accessories. Case dimensions 475x 365x 65 mm, Weight 600 g</p> <p><b>Order code: 582.0036</b></p>	
<p><b><u>Power adapter for auxiliary voltage</u></b></p> <p>for PQ-Box 150/200/300</p> <p><b>Order code: 582.0513</b></p>	
<p><b><u>Locker for PQ-Box 150/200/300</u></b></p> <p>Locker with steel cable (length 1,8 m) to lash PQ-Box 150/200/300.</p> <p><b>Order code: 111.7032</b></p>	

<b>Accessoires</b>	
<p><b><u>Adapter cable set for PQ-Box 200/300</u></b></p> <p>with 4 mm banana plugs for connection of AC / DC clamp (111.7020) and other manufacturer</p> <p><b>Order code: 111.7028</b></p>	
<p><b><u>Irradiance sensor and temperature probe</u></b></p> <p>Irradiance sensor and temperature probe for PQ-Box 200/300</p> <p>Measurement range: 0..1000W/m<sup>2</sup>, -30..70°C, 0..1V</p> <p>The power supply 111.7049 is required additionally and has to be ordered separately.</p> <p><b>Order code: 111.7040</b></p>	
<p><b><u>Temperature sensor probe</u></b></p> <p>Temperature sensor probe for PQ-Box 200/300</p> <p>Measurement range: 20..80°C – 0..1V</p> <p>The power supply 111.7049 is required additionally and has to be ordered separately.</p> <p><b>Order code: 111.7041</b></p>	
<p><b><u>Power supply</u></b></p> <p>Power supply 230V AC, Output 15V DC, 400 mA</p> <p><b>Order code: 111.7049</b></p>	

Accessoires	
<p><b><u>DCF 77 Radio controlled clock for PQ-Box 150/200/300</u></b></p> <p>DCF 77 Radio controlled clock for PQ-Box incl. rotating wall holder, connection cable and documentation, output: RS232</p> <p><b>Order code: 111.9024.01</b></p>	
<p><b><u>Wide range power supply for PQ-Box 150/200/300</u></b></p> <p>Range: 88V ... 500V AC / 100V ...300V DC 600V CAT IV, IP 65, Set with two adapter cables</p> <p><b>Order code: 111.7069</b></p>	
<p><b><u>Adapter cable</u></b></p> <p>As a junction at a measuring point</p> <p><b>For use with power supply you need two pieces</b></p> <p><b>Order code: 582.2037</b></p>	
<p><b><u>Wide range power supply Set</u></b></p> <ul style="list-style-type: none"> <li>1x Wide range power supply (111.7069)</li> <li>1x Test plug (582.0509)</li> <li>2x Adapter cable (582.2037)</li> </ul> <p><b>Order code: 111.7069.10</b></p>	

Accessoires	
<p><b><u>Battery- Pack for PQ-Box 150/200/300</u></b>                      For PQ-Box 150/200/300</p> <p><b>Order code: 570.0011</b></p>	
<p><b><u>Micro-SD-Card 4GB for PQ-Box 150/200/300</u></b>                      For PQ-Box 150/200/300</p> <p><b>Order code: 900.9098.04</b></p>	
<p><b><u>Micro-SD-Card 8GB for PQ-Box 150/200/300</u></b>                      For PQ-Box 150/200/300</p> <p><b>Order code: 900.9098.08</b></p>	

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Type Network Analyzer	PQ-Box 100			PQ-Box 150				PQ-Box 200		PQ-Box 300
Option	Basic	Light	Expert	Basic	Basic+	Light	Expert	T0	T1	HF
Data memory in Gbyte (memory optional)	2			4 (32)				4 (32)		8 (32)
Sampling frequency voltage	10,24 kHz			20,48 kHz				40,96 kHz		409,6 kHz
Sampling frequency current	10,24 kHz			20,48 kHz				40,96 kHz		409,6 kHz
Sampling frequency transient measurement	-			-				-	4 MHz	409,6 kHz
Input voltage (resolution)	4 (24-bit)			4 (24-bit)				4 (24-bit)		4 (24-bit)
Input current (resolution)	4 (24-bit)			4 (24-bit)				5 (24-bit)		5 (24-bit)
Bridging energy failure	30 s			4 h				4 h	3,5 h	3,5 h
IP protection	IP65			IP65				IP65		IP65
Analog input (1000 mV)	-	-	-	-	-	-	-	x	x	x
Binary input (0 - 250 V AC/DC)	-	-	-	-	-	-	-	x	x	x
Evaluation according to: EN50160 (2015) / IEC61000-2-2 (2018) / IEC61000-2-12 / IEC61000-2-4 (Class 1; 2; 3)/NRS048 /IEEE 519	-	x	x	-	x	x	x	x	x	x
Recording free interval 1 sec to 30 min	x			x				x		x
Recording 200 ms interval & 3 sec interval parallel to free interval	-			-	-	x	x	x	x	x
Voltage & current: ½ periode min. max. average	x	x	x	x	x	x	x	x	x	x
Power: P, Q, S, PF, cos(φ), sin(φ), tan(φ)	x	x	x	x	x	x	x	x	x	x
Distortion-, fundamental reactive-, modulation- and unbalance power	x	x	x	x	x	x	x	x	x	x
Energy: P, Q, P+, P-, Q+, Q-	x	x	x	x	x	x	x	x	x	x
Flicker (Pst, Plt, Pinst)	-	x	x	-	x	x	x	x	x	x
Unbalanced voltage, current; positive sequence/ negative sequence	x	x	x	-	x	x	x	x	x	x
Voltage harmonics according IEC 61000-4-30 Ed. 3 Class A - to 50.	-	x	x	-	x	x	x	x	x	x
Voltage harmonics extreme values 2. to 50. (200 ms RMS)	-	-	-	-	-	x	x	x	x	x
Phase angle of voltage harmonics	-	-	-	-	-	x	x	x	x	x
Voltage harmonics 200 Hz frequency bands - 2 kHz to 9 kHz	-	-	-	-	-	-	x	x	x	x
Supraharmonics 2 kHz to 170 kHz (200 Hz / 2 kHz frequency bands)	-	-	-	-	-	-	-	-	-	x
Current harmonics 2. to 50.	-	x	x	-	x	x	x	x	x	x
Current harmonics extreme values 2. to 50. (200ms RMS)	-	-	-	-	-	x	x	x	x	x
Current harmonics 200 Hz Frequenzbänder 2 kHz bis 9 kHz	-	-	-	-	-	-	x	x	x	x
Phase angle of current harmonics according fundamental of voltage	-	-	-	-	-	x	x	x	x	x
P, Q, S, cos(φ) of harmonics	-	-	-	-	-	x	x	x	x	x
THD U and I ; PWHD U and I ; PHC	x	x	x	x	x	x	x	x	x	x
Frequency spectrum with 5 Hz resolution up to	-	5 kHz	5 kHz	-	-	-	10 kHz	20 kHz		170 kHz
Ripple control signal 100 Hz to 5 kHz (200 ms RMS max value)	-	-	x	-	-	-	x	x	x	x
Frequency, 10 sec, average-, min.- max-value	x	x	x	x	x	x	x	x	x	x
10/15/30 min interval P, Q, S, D, cos(φ), sin(φ), tan(φ) add. to other intv.	x	x	x	x	x	x	x	x	x	x
<b>Online mode</b>										
Oscilloscope recorder - sampling frequency	10,24 kHz			20,48 kHz				40,96 kHz		409,6 kHz
Power triangle 3D of active-, reactive, apparent power and distortion	x	x	x	x	x	x	x	x	x	x
Voltage harmonics and current harmonics	-	x	x	-	x	x	x	x		x
Interharmonic groups (U, I)	-	x	x	-	x	x	x	x		x
Voltage harmonics and current harmonics 200 Hz frequency band- 2 kHz to 9 kHz	-	-	-	-	-	-	x	-	x	x
Supraharmonics up to 170 kHz (200 Hz or 2 kHz frequency band)	-	-	-	-	-	-	-	-	-	x
Direction of harmonics and phase angle of current harmonics	-	x	x	-	-	x	x	x	x	x
<b>Triggerfunctions (Oscilloscope &amp; ½ Periode RMS recorder)</b>										
Manual trigger via button	-	-	x	-	x	x	x	x	x	x
RMS level trigger (U, I)	-	-	x	-	x	x	x	x	x	x
RMS jump trigger (U, I)	-	-	x	-	x	x	x	x	x	x
½ periode frequency trigger (level; df/dt)	-	-	x	-	-	x	x	x	x	x
Phase shift trigger	-	-	x	-	-	x	x	x	x	x
Envelope trigger	-	-	x	-	-	x	x	x	x	x
Interval-trigger	-	-	x	-	-	x	x	x	x	x
Automatic-trigger	-	-	x	-	-	x	x	x	x	x
Trigger on binary input (0 - 250 V AC/DC signal; lower & upper threshold)	-	-	-	-	-	-	-	x	x	x
<b>Option R1</b>										
Ripple signal voltage and current recorder 100 Hz to 3 kHz	R1	R1	R1	R1	R1	R1	R1	R1	R1	R1
<b>Option S1</b>										
WLAN / Wifi interface	-			S1	S1	S1	S1	S1	S1	S1

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**Warranty Conditions:**

Warranty: 1 year from date of delivery for accessories & 3 years for PQ-Boxes.

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