

## PQ-Box 100

30 Oct 2015

### ‘Heavy Duty’ Australian Voltage Leads and Accessories

The PQ-Box 100 as standard is supplied with double insulated 2m ‘Instrument’ leads terminated in stackable banana plugs. Two separate black ‘AUX’ leads are provided to allow the PQ-Box 100 to be powered independently from the measuring circuit. Fuse adapters are provided.



Figure 1. Standard PQ-Box 100 ‘Instrument’ lead example.

To suit the requests of Australian customers, variations are possible:

#### AUX Power:

The external black ‘AUX’ power supply leads are removed and power is supplied internally via the L1&N measurement leads.

#### Lead Termination:

Leads can be terminated in ‘Fuse Caps’, rather than banana plugs (Figure 2).



Figure 2. ‘Fuse Cap’ terminated lead example.

#### Heavy Duty – Australian coloured leads:

‘Heavy Duty’ leads replace the standard ‘Instrument’ leads. These Australian sourced double insulated leads are available in red, white, blue, black, green colours. The ‘Heavy Duty’ leads are fitted in the factory, maintaining the IP rating and PQ-Box 100 specifications.



Figure 3. ‘Heavy Duty’ lead example.

#### Available combinations:

Not all combinations of options are available:


- Single phase units are only available without external ‘AUX’ leads.
- ‘Heavy Duty’ leads are only available without external ‘AUX’ leads
- ‘Heavy Duty’ leads are only available with ‘Fuse Cap’ termination. Order OPT3xx Banana Plug, or other adapters as required.
- Refer to the Ordering Information for permitted combinations.

## PQ-Box 100 Ordering Information

CHARACTERISTICS	CODE
Class A, Mobile power quality network analyser and power meter/data logger for low, medium and high voltage networks according to DIN EN-50160/IEC 61000-4-30. Includes: <ul style="list-style-type: none"> <li>• 2 GB Memory</li> <li>• USB interface &amp; cable</li> <li>• Hardcopy manual and CD-ROM with software</li> </ul>	<b>PQ-Box 100</b>
<b>Version</b> <ul style="list-style-type: none"> <li>• Basic</li> <li>• Light</li> <li>• Expert</li> </ul>	B0 B1 B2
<b>Ripple Control</b> <ul style="list-style-type: none"> <li>• Without high speed ripple control recorder</li> <li>• With high speed ripple control recorder</li> </ul>	R0 R1
<b>Operating Manual &amp; Display Language</b> <ul style="list-style-type: none"> <li>• English</li> </ul>	G2
<b>Number of phases</b> <ul style="list-style-type: none"> <li>• Three phase measurement (L-L, L-N, L-E, N-E)</li> <li>• Single phase measurement (L-N, L-E, N-E) [Must specify A1 for next code segment]</li> </ul>	U0 U2
<b>Auxiliary Power source</b> <ul style="list-style-type: none"> <li>• Separate auxiliary power supply leads [Must specify Q0 for next code segment]</li> <li>• No auxiliary power supply leads<sup>[1]</sup></li> </ul>	A0 A1
<b>Lead Type</b> <ul style="list-style-type: none"> <li>• Instrument leads</li> <li>• Heavy duty leads [Must specify E1 for next code segment]</li> </ul>	Q0 Q1
<b>Lead Termination</b> <ul style="list-style-type: none"> <li>• Banana plugs</li> <li>• Fuse caps</li> </ul>	E0 E1
<b>Carry Case</b> <ul style="list-style-type: none"> <li>• Orange carry case</li> <li>• Robust transport case</li> <li>• Textile bag</li> <li>• No carry case</li> </ul>	CC0 CC3 CC1 CC2

[1] Auxiliary Power Source Option A1 removes 2 external black AUX power supply leads and internally connects power supply to L1&N inputs. This limits the permitted measuring voltage range of the PQ-Box 100 to that of the internal AUX power supply range (100-280 Vac, 140-240 Vdc).

## Accessories to suit the 'Fuse Cap' connection

Order Code	Description	Example
OMA01VLxx	<b>Large Voltage Clamps:</b> <ul style="list-style-type: none"> <li>• 'Fuse Cap' screws onto one side of handle, which is also the fuse holder.</li> <li>• Jaw size 23 mm.</li> <li>• Order codes:               <ul style="list-style-type: none"> <li>○ OMA01VLRD = RED</li> <li>○ OMA01VLWH = WHITE</li> <li>○ OMA01VLBL = BLUE</li> <li>○ OMA01VLBK = BLACK</li> <li>○ OMA01VLGR = GREEN</li> </ul> </li> </ul>	



Recommended 'Fuse Cap' accessory ordering quantity:

PQ-Box specification	OMA01xx, OPT1xx, OPT2xx, OPT3xx, OPT4xx					Fuses OPT5FU10	Brass Link OPT5BL
	xx = RD	xx = WH	xx = BL	xx = BK	xx = GN		
U2... (1-phase, 3 leads)	1		1		1	1	2
U0 A1 ... (3-phase, 5 leads)	1	1	1	1	1	1	2
U0 A0... (3-phase, 7 leads)	2	1	1	2	1	1	2



Three Phase PQ-Box 100 with 'Heavy Duty' lead set, large voltage clamps, small insulated clips and boot lace ferrules. *Fuses/links not shown.*

*[PQ-Box 100 order code xxxx U0 A1 Q1 T1]*

Supplied lead/termination colours:

Single Phase PQ-Box 100's (U2)

Lead	Instrument leads with Banana plugs	Instrument leads with 'Fuse Caps'	'Heavy Duty' leads with 'Fuse Caps'
	[Q0 E0]	[Q0 E1]	[Q1 E1]
L1	Red	Red	Red
N	Black	Black	Black
E	Green	Green	Green

Three Phase PQ-Box 100's (U0)

Lead	Instrument leads with Banana plugs	Instrument leads with 'Fuse Caps'		'Heavy Duty' leads with 'Fuse Caps'
	[Q0 E0]	[Q0] Lead	[E1] Fuse Cap	[Q1 E1]
L1	Red	Red	Red	Red
L2	Red	Red	White	White
L3	Red	Red	Blue	Blue
N	Blue	Blue	Black	Black
E	Green	Green	Green	Green
AUX 1	Black <sup>[1]</sup>	Black <sup>[1]</sup>	Black <sup>[1]</sup>	N/A
AUX 2	Black <sup>[1]</sup>	Black <sup>[1]</sup>	Red <sup>[1]</sup>	N/A

[1] Only supplied with code A0 – specifying separate AUX power supply leads.

Please refer to our PQ-Box Accessories document for details on current clamps and the other accessories which are available. For full technical description of PQ-Box 100, refer to the latest data sheet.

Specifications subject to change without notice.