

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.

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## **PQ-Box 100 Ordering Information**

CHARAC	CTERISTICS		CODE
Class A, Mobile power quality network analyser and power meter/data logger for low, medium			PQ-Box 100
and high voltage networks according to DIN EN-50160/IEC 61000-4-30. Includes:			
2 GB Memory			
•	USB interface & cable		
•	Hardcopy manual and CD-ROM with software		
Version			
•	Basic		В0
•	Light		B1
•	Expert		B2
Ripple C	Control		
•	Without high speed ripple control recorder		R0
•	With high speed ripple control recorder		R1
Operati			
•	English	G2	
Number			
•	Three phase measurement (L-L,L-N, L-E, N-E)		U0
•	Single phase measurement (L-N, L-E, N-E) [N	Must specify A1 for next code segment]	U2
Auxiliar	y Power source		
•	Separate auxiliary power supply leads [N	Must specify Q0 for next code segment]	A0
•	No auxiliary power supply leads <sup>[1]</sup>		A1
Lead Ty	pe		
•	Instrument leads		Q0
•	Heavy duty leads [I	Must specify E1 for next code segment]	Q1
Lead Te	rmination		
•	Banana plugs	E0	
•	Fuse caps		E1
Carry Ca	ase		
•	Orange carry case		CC0
•	Robust transport case		CC3
•	Textile bag		CC1
No carry case			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	Large Voltage Clamps:  • 'Fuse Cap' screws onto one side of handle, which is also the fuse holder.  • Jaw size 23 mm.  • Order codes:  • OMA01VLRD = RED  • OMA01VLWH = WHITE  • OMA01VLBL = BLUE  • OMA01VLBK = BLACK  • OMA01VLGR = GREEN	

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OPT1xx	Small Insulated Clips:  • Fuse holder  • Double insulated lead, 350 mm.  • Small insulated clip: Jaw size 22 mm.  • Order codes:  • OPT1RD = RED  • OPT1WH = WHITE  • OPT1BL = BLUE  • OPT1BK = BLACK  • OPT1GN = GREEN	
<u>OPT2xx</u>	Boot Lace Ferrule:  • Fuse holder  • Double insulated lead, 350 mm.  • Boot lace ferrule  • Order codes:	
<u>OPT4xx</u>	Tinned end (rather than ferrule):  • Fuse holder  • Double insulated lead, 350 mm.  • Tinned wire end  • Order codes:	
ОРТЗхх	Banana Plug Adapter:  • Fuse holder  • Double insulated lead, 350 mm.  • Spring shrouded 4 mm banana plug.  • Order codes:	THE RESIDENCE OF THE PARTY OF T
FUSExx	Fuses for live/AUX connections are required to be ordered with the 'Fuse Cap' options.     Solid Brass links are required to be ordered for Neutral and Earth 'Fuse Cap' connections.     Order codes:     OPT5FU10 (pack of 10 fuses)     OPT5SBL (1 x Brass Link)	Fuse Link FR10GG50V2 D213098J Qty: 10 500V AC GG 2A IEC60259-2  1422 4133610 Made in France CE
ССх	<ul> <li>Additional carry cases are available for purchase where required accessories will not fit within the PQ-Box 100 carry case.</li> </ul>	

## 'Fuse Caps' and connected accessories are not CAT IV rated.

(Opened fused holders do not meet new finger-safe requirements)

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## Recommended 'Fuse Cap' accessory ordering quantity:

PQ-Box specification	10	OMA01xx, OPT1xx, OPT2xx, OPT3xx, OPT4xx				Fuses	Brass Link
	xx = RD	xx = WH	xx = BL	xx = BK	xx = GN	OPT5FU10	OPT5BL
U2 (1-phase, 3 lea	ls) 1		1		1	1	2
U0 A1 (3-phase, 5 lea	is) 1	1	1	1	1	1	2
U0 A0 (3-phase, 7 lea	ls) 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	Instrument	'Heavy Duty'	
	leads with	leads with	leads with	
	Banana plugs	'Fuse Caps'	'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] [E1]		[Q1 E1]
		Lead	Fuse Cap	
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 [1]	Black [1]	Black [1]	N/A
AUX 2	Black [1]	Black [1]	Red [1]	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.

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