



Features

- Easy-Load paper feature
- HP compatible IR interface
- IrDA and RS232 interfaces
- Power supply options
- High speed, high resolution printing capability
- Quiet, non-impact system
- Maintenance-free
- Ultra-Compact and light weight
- High reliability line head mechanism
- Versatile for use with text or graphics
- 24, 32 or 48 characters per line
- Barcode capability
- Low power mode
- Range of configurable options
- Windows drivers available on request
- Suitable for paper and label media
- Range of mounting options available

MCP7830 Series

MCP7830	Rechargeable NiMH batteries
MCP7830B	Alkaline batteries
MCP7830V	external 10-35Vdc
MCP7830X	external 5Vdc UPS

Introduction

The MCP7830 Series are ultra-compact, lightweight, portable thermal printers with an “easy-load” paper feature.

Housed in an innovative enclosure and designed for maximum flexibility, the series have IrDA and RS232 interfaces incorporated whilst also being compatible with existing systems using HP infra-red communications but allowing upgrades in terms of printing speed and functionality.

Power options include rechargeable NiMH batteries, alkaline batteries, an external 5Vdc Universal Power Supply or an external 10-35Vdc power supply. Rechargeable batteries may be continuously trickle charged from a mains power adapter, or a 12Vdc supply and a fast charge facility is incorporated.

Many different modes of operation are possible, including numerous character sets, all selectable by software commands.

The MCP7830 Series is from a range of thermal printers designed and manufactured in the UK by Martel Instruments. All units are built into robust ABS housings, with a choice of colours. We would be pleased to discuss the possibility of customising any aspect of the printer to specific requirements.

2. PRINTER CONFIGURATION

2.1 Configuration Options

The printer incorporates a number of configurable *options*, each of which has a number of *settings*. The default settings of the standard printer are detailed in the table below in bold. To change the setting of any option, follow the procedure below:

1. Ensure the printer is OFF.
2. Press and hold the Mode button. After about 5 seconds, the Status light will flash five times to show that the printer is in *configuration mode*. Release the Mode button.
3. Press the Mode button the same number of times as the *option* that you wish to change (for example to change IrDA baud rate, press the Mode button twice).
4. After a short delay, the Status light will flash the same number of times as the option that you have chosen. If you have made a mistake at this stage, simply wait: after a delay, the printer will power-on without changing any options.
5. To proceed with configuration, press the Mode button the same number of times as the *setting* that you wish to make (for example, to set the baud rate to 19200, press the Mode button 4 times).
6. After a short delay, the Status light will flash the same number of times as the setting that you have made.
7. After a further delay, the printer will power-on with the new setting.

Option Number	Option Description	Setting Number (default in bold)	Setting (default in bold)	Option Number	Option Description	Setting Number (default in bold)	Setting (default in bold)		
1	IrDA Protocol	1	8, No parity	6	Font	1	Arial 16, 24 CPL		
		2	8, Odd parity			2	Arial 12,32 CPL		
		3	8, Even parity			3	Arial 8, 48 CPL		
		4	7, Odd, parity			4	Roman 8, 24 CPL		
		5	7, Even Parity			5	Ecma 94, 24 CPL		
		6	HPIR Mode			7	Character Format	1	Normal
		7	IrMP Mode					2	Double Width
2	IrDA Baud Rate	1	115200 baud	8	Print Density	1	Lowest		
		2	57600 baud			2			
		3	38400 baud			3			
		4	19200 baud			4	Highest		
		5	9600 baud	9	Printing Current	1	Highest		
		6	4800 baud			2			
		7	2400 baud			3			
		8	1200 baud			4	Lowest		
		9	600 baud			10	Print Format	1	Standard paper, normal printing
		10	300 baud					2	Standard paper, upside down printing
3	RS232 Protocol	1	8, No parity	11	Sleep / Wake-up	1	Never Sleep		
		2	8, Odd parity			2	Sleep after 1 minute		
		3	8, Even parity			3	Sleep after 2 minutes		
		4	7, Odd, parity			4	Sleep after 5 minutes		
		5	7, Even Parity			5	Sleep after 10 minutes		
4	RS232 Baud Rate	1	115200 baud	10	Print Format	3	Labels, normal printing		
		2	57600 baud			4	Labels, upside down printing		
		3	38400 baud			11	Sleep / Wake-up	6	Off after 1 minute
		4	19200 baud					7	Off after 2 minutes
		5	9600 baud	8	Off after 5 minutes				
		6	4800 baud	9	Off after 10 minutes				
		7	2400 baud	5	RS232 Flow Control			1	None
		8	1200 baud					2	Software
		9	600 baud			3	Hardware		
		5	RS232 Flow Control	10	300 baud				

2.2 Software Selectable Functions

Underline
 Double height
 Double width
 Graphics
 Horizontal tab, plus setting
 Form feed, plus setting
 11 selectable international character sets
 Reverse printing
 Inverse printing
 Reset
 Barcodes

2.3 Control Codes and Escape Sequences (HP IR Mode)

Function	Code	Decimal	Hex
Horizontal tab	HT	9	09
Line feed	LF	10	0A
Form feed	FF	12	0C
Carriage return	CR	13	0D
Cancel	CAN	24	18
Double width on	SO	14	0E
Double width off	Si	15	0F
Set print mode	ESC NULL ! <i>n</i>	27 0 33 <i>n</i>	1B 00 21 <i>n</i>
Set barcode start position	ESC NULL \$ <i>n1 n2</i>	27 0 36 <i>n1 n2</i>	1B 00 24 <i>n1 n2</i>
Set bit image (8 pin single density)	ESC NULL * 0 <i>n1 n2 [d]</i>	27 0 42 0 <i>n1 n2 [d]</i>	1B 00 2A 00 <i>n1 n2 [d]</i>
Set bit image (8 pin double density)	ESC NULL * 1 <i>n1 n2 [d]</i>	27 0 42 1 <i>n1 n2 [d]</i>	1B 00 2A 01 <i>n1 n2 [d]</i>
Set bit image (24 pin single density)	ESC NULL * 32 <i>n1 n2 [d]</i>	27 0 42 32 <i>n1 n2 [d]</i>	1B 00 2A 20 <i>n1 n2 [d]</i>
Set bit image (24 pin double density)	ESC NULL * 33 <i>n1 n2 [d]</i>	27 0 42 33 <i>n1 n2 [d]</i>	1B 00 2A 21 <i>n1 n2 [d]</i>
Underline on	ESC NULL – 1	27 0 45 1	1B 00 2D 01
Underline off	ESC NULL – 0	27 0 45 0	1B 00 2D 00
Reset	ESC NULL @	27 0 64	1B 00 40
Set page length	ESC NULL C <i>n</i>	27 0 67 <i>n</i>	1B 00 43 <i>n</i>
Set horizontal tabs	ESC NULL D <i>n</i>	27 0 68 <i>n</i>	1B 00 44 <i>n</i>
Set bit image	ESC NULL K <i>n1 n2 [d]</i>	27 0 75 <i>n1 n2 [d]</i>	1B 00 4B <i>n1 n2 [d]</i>
Country select	ESC NULL R <i>n</i>	27 0 82 <i>n</i>	1B 00 52 <i>n</i>
Double width on	ESC NULL W 1	27 0 87 1	1B 00 57 01
Double width off	ESC NULL W 0	27 0 87 0	1B 00 57 00
Compressed bit image graphics	ESC NULL Z <i>n1 [d1] ... n24 [d24]</i>	27 0 90 <i>n1 [d1] ... n24 [d24]</i>	1B 00 5A <i>n1 [d1] ... n24 [d24]</i>
Print & feed paper	ESC NULL d <i>n</i>	27 0 100 <i>n</i>	1B 00 64 <i>n</i>
Label advance	ESC NULL f	27 0 102	1B 00 66
Reversed on	ESC NULL i 1	27 0 105 1	1B 00 69 01
Reversed off	ESC NULL i 0	27 0 105 0	1B 00 69 00
Double height on	ESC NULL w 1	27 0 119 1	1B 00 77 01
Double height off	ESC NULL w 0	27 0 119 0	1B 00 77 00
Inverse on	ESC NULL { 1	27 0 123 1	1B 00 7B 01
Inverse off	ESC NULL { 0	27 0 123 0	1B 00 7B 00
Graphics	ESC <i>n [d]</i>	27 <i>n [d]</i>	1B <i>n [d]</i>
Roman 8 character set	ESC <248>	27 248	1B F8
ECMA 94 character set	ESC <249>	27 249	1B F9
Underline off	ESC <250>	27 250	1B FA
Underline on	ESC <251>	27 251	1B FB
Normal width on	ESC <252>	27 252	1B FC
Double width on	ESC <253>	27 253	1B FD
Self test	ESC <254>	27 254	1B FE
Reset	ESC <255>	27 255	1B FF
Set barcode height ($1 \leq n \leq 255$)	GS h <i>n</i>	29 104 <i>n</i>	1D 68 <i>n</i>
Print UPC-A barcode	GS k 0 <i>[d]</i> NULL	29 107 0 <i>[d]</i> 0	1D 6B 00 <i>[d]</i> 00
Print UCP-E barcode	GS k 1 <i>[d]</i> NULL	29 107 1 <i>[d]</i> 0	1D 6B 01 <i>[d]</i> 00
Print EAN13 barcode	GS k 2 <i>[d]</i> NULL	29 107 2 <i>[d]</i> 0	1D 6B 02 <i>[d]</i> 00
Print EAN8 barcode	GS k 3 <i>[d]</i> NULL	29 107 3 <i>[d]</i> 0	1D 6B 02 <i>[d]</i> 00
Print Code 39 barcode	GS k 4 <i>[d]</i> NULL	29 107 4 <i>[d]</i> 0	1D 6B 04 <i>[d]</i> 00
Print 2 of 5 barcode	GS k 5 <i>[d]</i> NULL	29 107 5 <i>[d]</i> 0	1D 6B 05 <i>[d]</i> 00
Print Codabar barcode	GS k 6 <i>[d]</i> NULL	29 107 6 <i>[d]</i> 0	1D 6B 06 <i>[d]</i> 00
Print CODE128 barcode	GS k 7 <i>n [d]</i>	29 107 7 <i>n [d]</i>	1D 6B 07 <i>n [d]</i>
Set barcode magnification ($2 \leq n \leq 4$)	GS w <i>n</i>	29 119 <i>n</i>	1D 77 <i>n</i>

2.4 Control Codes and Escape Sequences (IrDA/RS232 Mode)

Function	Code	Decimal	Hex
Horizontal tab	HT	9	09
Line feed	LF	10	0A
Form feed	FF	12	0C
Carriage return	CR	13	0D
Double width on	SO	14	0E
Double width off	SI	15	0F
Cancel	CAN	24	18
Set print mode	ESC ! <i>n</i>	27 33 <i>n</i>	1B 21 <i>n</i>
Set barcode start position	ESC \$ <i>n1 n2</i>	27 36 <i>n1 n2</i>	1B 24 <i>n1 n2</i>
Set bit image (8 pin single density)	ESC * 0 <i>n1 n2 [d]</i>	27 42 0 <i>n1 n2 [d]</i>	1B 2A 00 <i>n1 n2 [d]</i>
Set bit image (8 pin double density)	ESC * 1 <i>n1 n2 [d]</i>	27 42 1 <i>n1 n2 [d]</i>	1B 2A 01 <i>n1 n2 [d]</i>
Set bit image (24 pin single density)	ESC * 32 <i>n1 n2 [d]</i>	27 42 32 <i>n1 n2 [d]</i>	1B 2A 20 <i>n1 n2 [d]</i>
Set bit image (24 pin double density)	ESC * 33 <i>n1 n2 [d]</i>	27 42 33 <i>n1 n2 [d]</i>	1B 2A 21 <i>n1 n2 [d]</i>
Underline on	ESC - 1	27 45 1	1B 2D 01
Underline off	ESC - 0	27 45 0	1B 2D 00
Reset	ESC @	27 64	1B 40
Set page length	ESC C <i>n</i>	27 67 <i>n</i>	1B 43 <i>n</i>
Set horizontal tabs	ESC D <i>n</i>	27 68 <i>n</i>	1B 44 <i>n</i>
Bold on	ESC G	27 71	1B 47
Bold off	ESC H	27 72	1B 48
Move <i>n</i> dot lines forwards ($1 \leq n \leq 23$)	ESC J <i>n</i>	27 74 <i>n</i>	1B 4A <i>n</i>
Change peak current	ESC I <i>n</i>	27 73 <i>n</i>	1B 49 <i>n</i>
Set bit image	ESC K <i>n1 n2 [d]</i>	27 75 <i>n1 n2 [d]</i>	1B 4B <i>n1 n2 [d]</i>
Country select	ESC R <i>n</i>	27 82 <i>n</i>	1B 52 <i>n</i>
Double width on	ESC W 1	27 87 1	1B 57 01
Double width off	ESC W 0	27 87 0	1B 57 00
Compressed bit image graphics	ESC Z <i>n1 [d1] ... n24 [d24]</i>	27 90 <i>n1 [d1] ... n24 [d24]</i>	1B 5A <i>n1 [d1] ... n24 [d24]</i>
Print & feed paper	ESC d <i>n</i>	27 100 <i>n</i>	1B 64 <i>n</i>
Label advance	ESC f	27 102	1B 66
Reversed on	ESC i 1	27 105 1	1B 69 01
Reversed off	ESC i 0	27 105 0	1B 69 00
Move <i>n</i> dot lines backwards ($1 \leq n \leq 23$)	ESC j <i>n</i>	27 106 <i>n</i>	1B 6A <i>n</i>
Double height on	ESC w 1	27 119 1	1B 77 01
Double height off	ESC w 0	27 119 0	1B 77 00
Inverse on	ESC { 1	27 123 1	1B 7B 01
Inverse off	ESC { 0	27 123 0	1B 7B 00
Set barcode height ($1 \leq n \leq 255$)	GS h <i>n</i>	29 104 <i>n</i>	1D 68 <i>n</i>
Print UPC-A barcode	GS k 0 [<i>d</i>] NULL	29 107 0 [<i>d</i>] 0	1D 6B 00 [<i>d</i>] 00
Print UCP-E barcode	GS k 1 [<i>d</i>] NULL	29 107 1 [<i>d</i>] 0	1D 6B 01 [<i>d</i>] 00
Print EAN13 barcode	GS k 2 [<i>d</i>] NULL	29 107 2 [<i>d</i>] 0	1D 6B 02 [<i>d</i>] 00
Print EAN8 barcode	GS k 3 [<i>d</i>] NULL	29 107 3 [<i>d</i>] 0	1D 6B 02 [<i>d</i>] 00
Print Code 39 barcode	GS k 4 [<i>d</i>] NULL	29 107 4 [<i>d</i>] 0	1D 6B 04 [<i>d</i>] 00
Print 2 of 5 barcode	GS k 5 [<i>d</i>] NULL	29 107 5 [<i>d</i>] 0	1D 6B 05 [<i>d</i>] 00
Print Codabar barcode	GS k 6 [<i>d</i>] NULL	29 107 6 [<i>d</i>] 0	1D 6B 06 [<i>d</i>] 00
Print CODE128 barcode	GS k 7 <i>n [d]</i>	29 107 7 <i>n [d]</i>	1D 6B 07 <i>n [d]</i>
Set barcode magnification ($2 \leq n \leq 4$)	GS w <i>n</i>	29 119 <i>n</i>	1D 77 <i>n</i>

2.5 International Character Sets

(HP IR Mode)

Country	Code	Decimal	Hex
USA	ESC NULL R 0	27 0 82 0	1B 00 52 00
France	ESC NULL R 1	27 0 82 1	1B 00 52 01
Germany	ESC NULL R 2	27 0 82 2	1B 00 52 02
UK	ESC NULL R 3	27 0 82 3	1B 00 52 03
Denmark I	ESC NULL R 4	27 0 82 4	1B 00 52 04
Sweden	ESC NULL R 5	27 0 82 5	1B 00 52 05
Italy	ESC NULL R 6	27 0 82 6	1B 00 52 06
Spain	ESC NULL R 7	27 0 82 7	1B 00 52 07
Japan	ESC NULL R 8	27 0 82 8	1B 00 52 08
Norway	ESC NULL R 9	27 0 82 9	1B 00 52 09
Denmark II	ESC NULL R 10	27 0 82 10	1B 00 52 0A

(IrDA/RS232 Mode)

Country	Code	Decimal	Hex
USA	ESC R 0	27 82 0	1B 52 00
France	ESC R 1	27 82 1	1B 52 01
Germany	ESC R 2	27 82 2	1B 52 02
UK	ESC R 3	27 82 3	1B 52 03
Denmark I	ESC R 4	27 82 4	1B 52 04
Sweden	ESC R 5	27 82 5	1B 52 05
Italy	ESC R 6	27 82 6	1B 52 06
Spain	ESC R 7	27 82 7	1B 52 07
Japan	ESC R 8	27 82 8	1B 52 08
Norway	ESC R 9	27 82 9	1B 52 09
Denmark II	ESC R 10	27 82 10	1B 52 0A

2.6 Print Mode (ESC!)

Bit	Function	Value	
		0	1
0	Character font		
1	} (see below)		
2			
3	} (see below)		
4			
4	Double height	Cancelled	Set
5	Double width	Cancelled	Set
6	Undefined		
7	Underline	Cancelled	Set

2.7 Character Font

	Bit 1	Bit 0
24 characters per line	0	0
48 characters per line	0	1
32 characters per line	1	0
Undefined	1	1

2.8 Print Density

	Bit 3	Bit 2
Light 1 (Default)	0	0
2	0	1
3 (Label Default)	1	0
Dark 4	1	1

3. Housing Colour

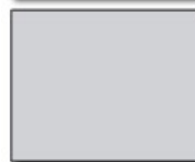
Printer housings are available in four standard colours as shown, all printers will be supplied in Black Grey colour unless specified to the contrary.

Other colours from the RAL colour chart can be supplied subject to a MOQ.

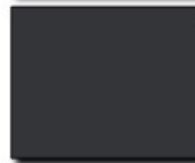
Custom colours can be moulded subject to discussion with Martel.



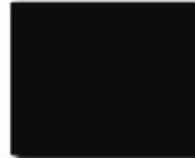
Cream—RAL9001



Grey White—RAL9002



Black Grey—RAL7021



Graphite Black—RAL9011

4. PRINTER OPERATION

MCP7830

4.1 Battery Charging

Insert the batteries ensuring the correct polarity positioning is followed. When the printer is first delivered there may be little or no charge in the printer's batteries. The printer should be **turned off**, connected to the MPS adapter and allowed to charge for 16 hours before it is used for the first time.

It is recommended to connect the printer to the MPS power adapter and recharge the batteries as soon as the Status LED indicates low battery. (5.2 Status LED, pg 9)

It is permissible to leave the printer permanently connected to the MPS power adapter to trickle charge the batteries. If the printer is asleep it will wake up when the adapter is connected and will not sleep while it is connected. To fast charge the batteries, the printer must be off.

If the batteries in the printer become exhausted, printing will become faint, erratic or not possible at all. **Turn off** the printer and recharge the batteries for at least 15 minutes before attempting further printing. The MPS adapter cannot supply the full power requirements for the printer during printing, so the batteries must be partially charged before printing is possible.

The printer should only be used in conjunction with a MPS161 power adapter. Users wishing to provide their own power source must contact Martel. **The use of an unapproved source may void the printer's warranty.**

4.2 Power On Procedure

Ensure the NiMH batteries are sufficiently charged. Open the paper cup lid and ensure that the roll is present and that there are no foreign objects inside the paper cup. Close the lid, ensuring that the paper passes through the paper exit slot.

When the Status indicator is off, the printer is off. A brief press of the Mode button turns the printer on, the Status indicator will illuminate and the printer mechanism will reset. A brief press of the Mode button will turn the printer off. When the printer is asleep, pressing the Mode button will wake up the printer.

MCP7830B

4.2 Power On Procedure

Insert the alkaline batteries ensuring the correct polarity positioning is followed. Open the paper cup lid and ensure that the roll is present and that there are no foreign objects inside the paper cup. Close the lid, ensuring that the paper passes through the paper exit slot.

When the Status indicator is off, the printer is off. A brief press of the Mode button turns the printer on, the Status indicator will illuminate and the printer mechanism will reset. A brief press of the Mode button will turn the printer off. When the printer is asleep, pressing the Mode button will wake up the printer.

If the batteries in the printer become exhausted, printing will become faint, erratic or not possible at all

Batteries should be removed if the printer is to be left unused for long periods.

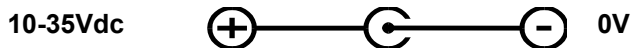
External PSU (optional)

The MCP7830B can be powered from the optional mains PSU, MPS120 or MPS122. The printer should be switched off when changing from battery to external power and vice-versa however the batteries do not need to be removed when using the MPS120 or MPS122.

MCP7830V

4.2 Power On Procedure

Power is supplied to the printer from a 10-35Vdc external supply via a 2.1/5.5mm connector (+ve OUTER). Insert the connector into the socket provided in the base of the printer. Power and data via the RJ12 connector can be arranged as a factory option on request.

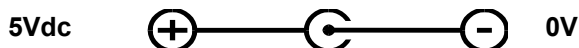


MCP7830X

4.2 Power On Procedure

Power is supplied to the printer from a 5Vdc external supply via a 2.1/5.5mm connector (+ve OUTER). The Martel MPS120 or MPS122 Universal Power Supply should be used and the use of an alternative source may void the printer's warranty

Insert the connector into the socket provided in the base of the printer.



4.3 Low Power Mode

The MCP7830 incorporates two low power modes; configured via option 11, page 3, however the printer will not enter low power mode if the charger is attached. The low power mode is not a feature for the MCP7830V option.

In **Sleep mode** the printer enters low power mode after a preset period of inactivity. Once asleep, the printer can be woken by sending a NULL character 1 sec before data to be printed, OR the printer can be woken by pressing the Mode button.

In **Auto off mode** the printer cannot be woken by data transfer and must be powered-on manually.

4.4 Paper Tear Procedure

When removing the printout from the printer, pull the printout toward the front of the printer and tear from one side to the other across the serrated edge.

5. PRINTER MAINTENANCE

5.1 Power On Self Test

The self test procedure will check most of the printer functions, except for the serial Interface, i.e: Printer mechanism, Control circuitry, Firmware version, Print quality. When the printer is off, press and hold the Mode button depressed for approximately 2 seconds. Release the button, the printer will power on and print a self-test report.

5.2 Status LED

LED Indication	Condition	Solution
On	Printer On	-
Off	Printer Off or Asleep	-
Short flash every second	Fast Charging	MCP7830 only
* * *	Paper out	Fit new paper
** ** *	Thermal head too hot	Allow head to cool
*** ** *	Battery cut-out (no charge remaining)	Recharge batteries – MCP7830 Replace batteries — MCP7830B
		Check supply voltage — MCP7830V & MCP7830X
**** ** *	Battery low (approx. 20% charge remaining)	Recharge batteries—MCP7830 Prepare to replace batteries — MCP7830B
		Check supply voltage — MCP7830V & MCP7830X

5.3 Paper Out

The printer will automatically detect when the printer paper has run out, and report this using the Status LED. Replace the paper roll as described below.

5.4 Head Thermal Limit

After extensive printing the print head temperature may rise to an unusable level. The Status LED will report when this occurs, and printing will be suspended until the head temperature returns to normal levels.

5.5 How to open Paper Reservoir Lid

Pull the lever upwards and forward until the lid is released from its locked position. To avoid damage do not use excessive force.

5.6 Replacing Paper Roll

If the paper roll needs replacing, open the paper reservoir lid and remove the remaining paper. Reel off a few centimetres from a new roll of paper, hold approximately 5cm of paper outside the printer as the roll is placed into the reservoir. Close the lid by applying equal amounts of pressure on each side until the lid is in the locked position. Now tear the surplus paper away.

5.7 Disposal

At the end of its working life the printer should be disposed of in accordance with The Waste Electrical and Electronic Regulations (“the WEEE Regulations), if in use within the EU, and in accordance with national requirements in other countries. The MCP7830 and MCP7830B printers contain batteries that should be disposed of by a qualified recycler or hazardous material handler.

6. ACCESSORIES & CONSUMABLES

6.1 Power Adaptors

Description	Use with	Part Number
Universal Charger with detachable plugs, UK, US & Euro	MCP7830	MPS161
Universal Power Supply with detachable plugs, UK, US & Euro	MCP7830B/X	MPS122
Universal Power Supply	MCP7830B/X	MPS120

6.2 Mains Leads

Description	Use with	Part Number
Mains Lead with US style plug	MPS120	MGK50
Mains Lead with UK style plug	MPS120	MGK51
Mains Lead with Euro style plug	MPS120	MGK52

6.3 Paper / Labels

Description	Part Number
Thermal Paper Roll, 25m	MM58
Continuous Thermal Label Roll, 10m, 12 yr life	ML58/C48

6.4 Data Cables

Description	Part Number
Serial Cable, RJ12/D9	MGK20

6.5 Replacement Battery

Description	Use with	Part Number
Battery, AA 1.2V, Ni-MH (4 required)	MCP7830	MJ10.01
Battery, AA, 1.5V, Alkaline (4 required)	MCP7830B	MJ11

6.6 Mounting Options

Description	Part Number
Protective Boot with magnetic inserts	MPB500
Carry Case with shoulder strap and belt loop	MPH501
Detachable Magnetic Plate	MFP92
Detachable Mounting Plate	MFP93
Detachable Belt Loop	MFP94
Detachable Belt Loop with studs	MFP95
Detachable Belt Clip	MFP96
Wall Mounting Kit including fixings	MFP97

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MCP7830/AD/S

All instruments designed and manufactured in Great Britain. The manufacturer reserve the right to alter specifications without prior notice.