

ACCESSORIES

CASES

The cases are available in four options for either desktop use and/or 19" rack mounting, and all variants can accommodate up to 10 Plug-In modules plus the **point2point** switch panel which supplies power to the modules. If the Test & Instrumentation System Controller is fitted, then the number of module slots is reduced to 8.

The cases incorporate a backplane PCB and power supply. The **point2point** Plug-In modules simply plug into the case, allowing the user to quickly and easily upgrade his system with additional modules at any time.

Desktop Case SRK-3P

This 4U desktop case (right) can accommodate any type of **point2point** Plug-In module, including the System Controller, and incorporates cooling fans. The case also features GPIB and RS232 control ports for remote control (where applicable).



Desktop Case SRK-3RP

This version of the 4U cooled desktop case is supplied with rack or cabinet mounting "ears" to fit standard 19" enclosures.



Converter Sleeve 75002

The Plug-In module Converter Sleeve (left, shown with plug-in module) enables a **point2point** Plug-In module to be converted for standalone use. Power for the module is provided by a Mains Power Supply Unit. The Converter Sleeve is not recommended for use in a hostile RFI environment, and is not compatible with PPM Battery Packs. In these situations, a Shielded Remote Module should be used.

1U 19" Rack 75011

The 1U rack (shown right) enables 3 **point2point** plug-in modules to be housed in a 19" enclosure. Power for the modules is provided by an integrated AC power supply that has a universal input. When monitoring 3 phase systems, the 1U rack is a very cost effective and neat solution.



CASE SPECIFICATIONS

75002

75013/4/5/6

SRK-3P

SRK-3RP

75011

Description	Converter Sleeve	Power Sleeve	Fan-Cooled Desktop Case	Fan-Cooled Subrack	Subrack
Max. No. of Plug-In modules	1	1	10 (using <i>point2point</i> switch panel) or 8 (using Controller)		3
19" Rack Mounting (Ears)	No	Not suitable	Not Suitable	Yes	Yes
Desktop Mounting (Handles)	Yes	Yes	Yes	Not Suitable	Not Suitable
Wall Mounting	Yes	Not Suitable	Not Suitable	Not Suitable	Not Suitable
Height	38mm	82mm	4U, 177mm	4U, 177mm	1U, 44.25mm
Width	160mm	175mm	84HP (448.8mm)	84HP (448.8mm)	84HP (448.8mm)
Depth (excl. handles)	190mm	223mm	345mm	345mm	345mm
Weight (excl. modules)	600g	2.5kg min 3.7kg max	8kg	8kg	1.5kg
Operating Temperature	-10°C to +40°C				
Power	Mains PSU 73502	Internal Battery	Universal AC input 100VAC – 270VAC 50-60Hz		
Suitable <i>point2point</i> modules.	All types	All types	All types	All types	All types

FIBRE OPTIC MODULES

Shielded Remote Module

The compact Shielded Remote Module shields the Transmitter or Receiver unit against very high levels of electrical interference. Power is provided from a Shielded Battery Pack or from an external DC source.



Plug-In Module

Plug-In modules are available for mounting in PPM's *point2point* 19" Racks. This module format is compatible with Desktop Cases and Subracks 75011, 75013*, SRK3P and 3RP. For applications where a single module is required, the Plug-In Module Converter Sleeve can be used (see below).

Converter Sleeve

The Plug-In Module Converter Sleeve 75002 converts the Plug-In Module into a standalone unit, designed for operation at a remote location where environmental and electromagnetic field levels are less demanding. Power may be provided from an external DC source or from a PPM 12V mains power supply unit (with wide input voltage range 110V-240V) part number 73502.



Battery Sleeve

The Plug-In Battery Sleeves 7501x converts the Plug-In Module into a battery powered standalone unit, designed for operation at a remote location where environmental and electromagnetic field levels are less demanding. This solution provides comprehensive isolation from HV and up very long run times with the option of a 9.0Ah battery and remote ON/OFF fibre controller switch.

MODULE SPECIFICATIONS

	Shielded Remote	Plug-In
Dimensions	160x90x36mm	3U x 7HP x 160mm
Weight	750g	600g
Power Supply	+13-15V or Shielded Battery Pack (see below) (Module shuts down below 12V)	+12V from Rack Case
Current Consumption	See individual datasheets	

SHIELDED BATTERY PACKS

All shielded modules are designed for operation from PPM's shielded battery packs. The packs are available in two versions, a standard capacity model and high capacity model for applications where extended test time is a necessity.

Battery packs attach to the shielded module with a U-shaped coaxial Battery Linking Plug that serves both as an electrical connection and a mechanical fixing, shown in the diagram, right.

This high quality U-Link has a finger-tight screw fitting that ensures a high level of shielding effectiveness and reliable mechanical connection.

The cells are protected with two resettable fuses, one for over temperature control and a second for over current control.



The Battery Packs are charged using a PAG intelligent charger. This is a four channel device enabling multiple packs to be charged without user intervention. The charger has a cell-levelling program capable of optimising the charge in each cell of the pack to ensure long cell lifetime.

Charge time for a standard capacity pack from a fully discharged state is under 2 hours.

SHIELDED BATTERY PACK SPECIFICATIONS

	Standard Capacity Battery Pack 73511	High Capacity Battery Pack 73512
Battery Pack Dimensions (LxWxH),	160x23x90mm	160x40x90mm
Battery Pack Capacity	2.0Ah	3.6Ah
Battery Pack Charge Time	<1hour	<2 hours
Battery Pack Discharge Time	4 hours when connected to DC modules 8 hours when connected to AC modules	8 hours when connected to DC modules 15 hours when connected to AC modules
Voltage	14.4V nominal	14.4V nominal
Cell Type	Nickel Metal Hydride	Nickel Metal Hydride
Protection	Internal thermal fuse	Internal thermal fuse
Weight	750g max.	1.1kg max.
Charger Type	PAG Intelligent Charger 56166(shown)	

FIBRE OPTIC CABLES & ACCESSORIES



PPM Fibre Optic Cables are available in a range of lengths to suit all applications. **point2point** modules are fitted FC/APC connectors. This option must be specified in the FOC part number.

A range of accessories is available to complement and care for your fibre optic cable, including a Cable Management Reel (left) and Fibre Optic Cleaning Kit.

FIBRE OPTIC CABLE SELECTION GUIDE

F6R1 (FC/APC)

DC Links (PDT or PDR) 2MHz & 10MHz	•
AC Links (PAT or PAR)	•

F1R1 (ST)

DC Links (PDT or PDR) 2MHz Multimode 50/125um	•
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F8R1 (ST)

DC Links (PDT or PDR) 2MHz Multimode 62.5/125um	•
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point2point FIBRE OPTIC CABLE SPECIFICATIONS

Fibre type F6R1/xxx	Single-mode 8/125µm
Fibre type F1R1/xxx	Multi-mode 50/125µm
Fibre type F8R1/xxx	Multi-mode 62.5/125µm
Cable Outer Diameter	2.8 - 3.0 mm
Minimum Bend Radius	25mm
Temperature Range	-10 to +50°C

CABLE PART NUMBERING

F 6 R 1 / XXX

Connector type
1 = ST (Multimode)
6 = FC/APC

Assembly Length (m)

STANDARD CABLES

F6R1/1	1m long, FC/APC connectors both ends
F6R1/10	10m long, FC/APC connectors both ends
F6R1/50	50m long, FC/APC connectors both ends
For Cables from 25 – 2000m PPM recommends the cross-site cable range. Please see Datasheet “F-xxx-DS” or contact PPM.	

PART NUMBERS & ORDERING INFORMATION

CASES & SUBRACKS

SRK-1P	3U Desktop Case + Switch Panel
SRK-2P	3U Subrack + Switch Panel
SRK-3P	4U Desktop Case + Switch Panel
SRK-3RP	4U Subrack + Switch Panel
75002	Converter Sleeve
73502	Mains PSU for Converter Sleeve
75011	1U Subrack
75013/4/5/6	Remote battery sleeve

BATTERY PACKS

73511	Standard Capacity Battery Pack + Battery Linking Plug
73512	High Capacity Battery Pack + Battery Linking Plug
56166	PAG Charger + 4 Charging Leads

FIBRE OPTIC CABLES

FxR1/xxx	Fibre Optic Cable (1, 10, 50m standard. For 25 – 2000m contact PPM)
73481	Cable Management Reel
73554	Large Cable Management Reel for cross-site Cables to 300m
56172	FC Bulkhead Adapter
55440	ST Multimode Bulkhead Adapter
72791	Optical Cleaning Kit

POINT2POINT MODULES

PAX...	AC Links - see PAX-Datasheet
PDx...	DC Links - see PDx-Datasheet

BATTERY SWITCH

73680	Switch, Battery Load, point2point
73681	Module, Battery Controller, 4 channel
F1R1/1	1m Multimode Fibre Optic Cable, ST Connectors /10 (=10m), /50. For 25 to 2000m contact PPM
F8R1/1	1m Multimode Fibre Optic Cable 62.5/125, ST Connectors /10 (=10m), /50. For 25 to 2000m contact PPM
73401	Battery Switch lead, DIN47295 to 2.1mm power plug
73402	Battery Switch lead, DIN47295 to bare end

PPM also offer a range of current and voltage probes, please contact us for more details.

CONTACT US

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