

Our point2point range is a versatile fibre optic link system for use in a wide range of test and instrumentation applications such as EMC testing and High Energy Physics diagnostics. Modules are available in a range of configurations, data formats and frequency ranges.

The point2point system handles any combination of bandwidth or data formats. The 19" chassis accommodates up to 10 plug-in modules while individual remote modules are available in standard or electromagnetically shielded housings.



## System Configuration

A typical *point2point* link configuration consists of a Transmitter connected to a Receiver via a Fibre Optic Cable. The user can apply an electrical signal to the Transmitter which converts this to an optical signal for transmission to the Receiver. At the Receiver, the signal is converted back into an electrical signal. Transmitter and Receiver units can be supplied in Remote, Shielded Remote or in Rack Mount Module options.

## Product Description



AC Fibre Optic Links



DC Fibre Optic Links



Digital Fibre Optic Links

## Applications

- EMC test and pulse power measurement
- DC, RF and pulse signal monitoring and distribution
- Isolated high voltage monitoring
- Transmission in electrically noisy environments
- Secure data transmission (Tempest)
- Time and frequency domain monitoring
- Antenna remoting
- High speed serial and parallel digital transmission
- Portable, transportable and fixed installations
- Transmission of control signals
- Long haul transmission distances (>10km)

## Benefits of Fibre Optic Links

- Immunity to electrical interference
- Non-conductive – does not conduct interference and provides high voltage isolation Highly flexible and small diameter cable
- Advantages over coaxial cable:
  - Lower cost
  - Very low loss
  - Small size and weight
- Modular concept for maximum flexibility.
- Multiple channel 19" Rack Case for up to 10 plug-in modules.
- Standard and Heavy Duty Fibre Optic Cable options.
- Rack Mount or compact Remote and Shielded Remote Module housing options.
- Shielded Remote housings offer very high electrical shielding.



## point2point Signal and Bandwidth Options

Series	Description
PAX Series	Broadband AC Coupled links; 40Hz-250MHz, 2KHz-1.35GHz; 1MHz-2GHz & 10MHz-3GHz. Input/output power, gain and housing options available
PDX Series	DC Coupled links; DC-1MHz; DC-5MHz & DC-10MHz. Input and output voltage and housing options available
PSX Series	Serial Digital Data links; RS422 & RS485 (DC-10Mb/s) Housing options available
PPX Series	8 Channel Parallel Digital Control & Acquisition links; TTL, 5, 12, 24 and 48 Volt input options available. Open collector and TTL output options available



## point2point Fibre Optic Links

### Common Accessory Options

Housing Options	All point2point Transmitters and Receivers are available as either Shielded Remote Modules for use in high electromagnetic (EM) fields or 19" Chassis Plug-in Modules for normal EM environments. These Plug-in Modules can be located in either the 19" Chassis or Converter Sleeve (75002) for "stand-alone" use. See "point2point Cases" data sheet for full details.
<b>Part Number</b>	<b>Description</b>
PRK1	19" Desktop Chassis, 3U High, 100-230VAC (Only suitable for PAX/PSX series modules)
PRK2	19" Subrack, open frame, 3U High, 100-230VAC (Only suitable for PAX/PSX series modules)
PRK3	19" Desktop Chassis, fan cooled, 4U High, 100-230VAC (Any module type)
75002	Converter Sleeve (Plug-in to remote module conversion - Requires 73502)
PSUs & Batteries	
73477	Shielded Battery Pack, high capacity, 2Ah (Shielded Remote Modules only)
55733	Shielded Battery Linking Plug (Connects Battery/Shielded Mains Supply to Shielded Remote Module)
73467	Battery Charging Lead (Connects Shielded Battery Pack to PAG Charger)
56157	PAG Fast Battery Charger, 4 Channel with battery recovery cycle
56160	PAG Fast Battery Charger, intelligent 4 Channel with battery discharge and recovery cycles
73502	Power supply for Converter Sleeve 75002, 100-230VAC
73503	Shielded Power Supply for Shielded Remote Module (100 -230VAC 3 pin IEC)
Fibre Optic Cable	
F4R1/X	Single mode fibre optic cable. FC/PC connectors. For PDX and PPX series links.
F6R1/X	F6R1/X Single mode fibre optic cable. FC/APC connectors. For PAX series links.
F1R1/X	Multi-mode fibre optic cable. ST connectors. For PSX series links.
Other Accessories	
73481	Cable Management Reel, standard cable (For up to 300m)
72489	Waveguide conduit (For up to 6 Fibre Optic Cables)
73610	Cable Assembly RS422 7 pole OB to 9 pin D type (For PSX Series Modules)
73613	Shielded Remote Module Power Supply Lead terminated one end only
96003	Transport & Storage Case (19" Chassis, 2 batteries/4 modules, PAG Charger, leads etc.)