

## OPTICALLY CONTROLLED BATTERY SWITCH

### APPLICATIONS

- Compatible with all point2point products.
- Compatible with all battery technologies
- Provide remote control of modules via a multimode fibre
- Long distance transmission, will work in excess of 1km
- Provide a fully isolated control signal with very high levels of shielding and immunity.



### BENEFITS

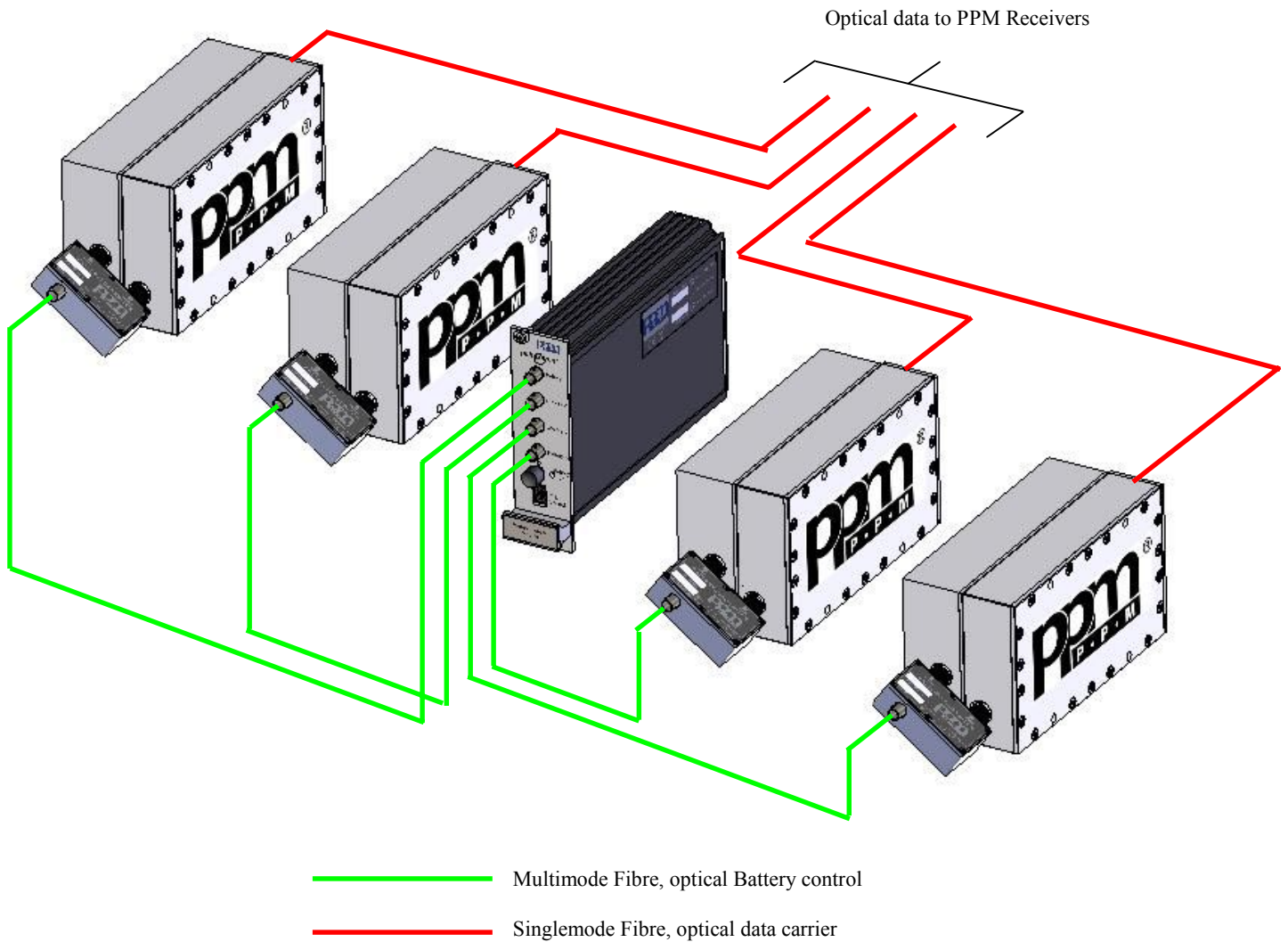
The use of optical battery switch has a number of inherent advantages:

- Immunity to electrical interference.
- Load can be switched to greatly increase the battery operating endurance.
- Can be either manually
  - All ON or All OFF by front panel switch.
- Can be digitally controlled
  - Individually switched via TTL/Open collector, input on front panel.
- Non-conductive, thus providing an intrinsically safe transmission path.
- Two compatible modules either
  - Single channel battery switch
  - Four channel battery controller

### PERFORMANCE

The PPM optically controlled battery switch offers the following performance

- Voltage drop <math><50\text{mV}</math> @500mA.
- Control Manual switch or TTL/Open collector
- Time ON/OFF 1us/200us Typ.
- Control logic On = Light present
- Quiescent current 15mA (load switch)
- Quiescent current 400mA (controller)
- Visual Red/Green indication of Switch status
- Manual control via two way switch
- Digital control via 8 way shrouded connector
- Controller module, will support up to 4 battery switches and fit in standard point2point rack
- Battery switch can be fitted in place of standard U link
- Visual indication of received optical signal level at Receiver
- Control interface via ST terminated multimode fibre (65/125 recommended)



Layout for optically controlled Battery Switches when used in conjunction with PPM Shielded Batteries  
*(for illustrative purposes only. Control module to normally reside with Receivers in a suitable PPM 19" rack system)*