

ISO 9001 : 2000 Cert.No. :

Model: rdcFOu

Universal Fiber Optics Converter

The rdcFOu safely & effectively connects your equipment by fiber optics, providing the ultimate level of isolation, surge, and noise protection. Field configurable to RS-232, RS-422, or RS-485 (both 2 or 4-wire), the rdcFOu saves you engineering time and money by simplifying your testing, installation, and maintenance.

On the standard model, the serial port is optically/galvanically isolated from your DC supply ground to further enhance robustness and prevent ground loops or multi-vendor politics.

ST or SMA connectors can be supplied, plus the quality Hewlett Packard components used are guaranteed to work with 62.5/125, 100/140, and 50/125 µm fiber sizes.

Specification

Fiber Optic

Connector: ST (bayonet) or SMA (threaded) Fiber Size: 62.5/125, 100/140, and 50/125 µm Insertion Loss: for ST, is a repeatable 0.2dB typically Technology: 820 nm wavelength, GaAlAs emitters Power: typically -12dBm into 62.5/125 µm fiber

<u>Serial (Field Selectable)</u>

Signal Type: EIA/RS-232C/D/E, EIA/RS-422A, and EIA/RS-485A

Voltage Level: +/- 9 vDC or -7/+12vDC

Surge Protection: +/- 15 vDC 600watt (isolated models only)

RS-232 to fiber : complete optical isolation Supply to fiber: complete optical isolation

Supply to RS-232: Isolated models have 2500v isolation

Power Supply

38v-58v DC : 1.5w normal 30mA @ 48v 9v-36v DC: 1.5w normal 60mA @ 24v 5v DC +/- 5%: 1w normal 200mA @ 5v

User Indications: Green LED for supply & isolated power

Communication

Max Speed: atleast 115Kbps at standard distances Character Setting: transparent, no configuration required

User Indications: Transmit and Receive Data

Standard Distance: At least 2 Km with 62.5/125 µm fiber

Practical Distance: Up to 4000m for fiber optics

Mechanical / Environment

Operating Range: -40°C to +65°C (Ambient Temperature)

Storage Range : -40°C to +100°C

Relative Humidity: 10 to 90% RH, non-condensing Terminals: wire up to 2.5mm (12 AWG)

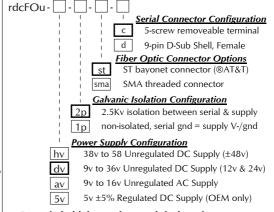
D-shell connecter: 9-pin, 30µ gold pins/sockets rated 500 cycles Case Material: fungus and termite resistant self-extinguishing

Weight: approx 130g

Mounting Rail: DIN EN 50 022 or DIN EN 50 035

-Block Diagram -Q-LED -**Ö**- LED Trm+ Ø V+ Isolated Ø V-Test FO Ø 5vTst SMA ST or Tx/T-LED Rx/R-SGnd SGnd T+: 4 & 9 3 & 8 Removable 5-screw R+: 1 & 6 terminal block or Rx/R-: 2 & 7 9-pin D-Sub Shell Female

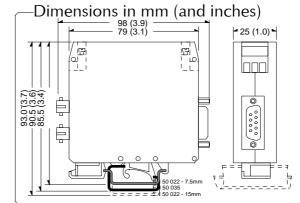
Order Information



Boxes in bold denote factory default options

Non-isolated (-1p) is only available with power supply -dv or -5v

Testing your fiber optics - the top screw-terminal labeled "Test FO" can be used to easily test your fiber optics link. Connecting it to the serial SGnd terminal forces the fiber transmitter ON. You can easily see the light at the remote end (even with the naked eye) and identify the proper fiber.



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(Version 1.0) Specifications subject to change without notice

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