The Model 2R14 Fiber Optic Receiver converts optical data into a 4 to 20mA analog output signal for use in process control. A single glass fiber connects the Fiber Optic Receiver (FOR) to its mated Fiber Optic Transmitter (FOT). These units deliver the highest degree of accuracy over their entire specified ambient temperature range and absolutely no field adjustments are ever required.

The DIN rail mounted unit is available with options for an extended ambient temperature range and a local digital display (see Model 2M02).

### SPECIFICATIONS

#### Mechanical

<table>
<thead>
<tr>
<th>Mounting:</th>
<th>35mm DIN Rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight/Unit:</td>
<td>&lt; 9oz (250g)</td>
</tr>
<tr>
<td>Case Material:</td>
<td>Plastic (UL94V-0)</td>
</tr>
</tbody>
</table>

#### Power Requirements:

- 24Vdc ±10% at 200mA

#### Wire Cable Connections:

- Pluggable, Cage-Clamp, Screw Terminal Blocks, accepts 12 to 24 AWG

#### System Accuracy (FOT+FOR):

- ± 0.1% maximum, over their entire operational temperature range

#### System Response Time (FOT+FOR):

- < 2ms (10% to 90% input step change) transfer rates to 800Hz

#### Optical Wavelength:

- 850nm

#### Optical Connectivity:

- ST* compatible

#### Optical Dynamic Range:

- 25dB, utilizing 62.5/125μm, Multi-mode Fiber to mated 2T14
- 31dB, utilizing 62.5/125μm, Multi-mode Fiber to mated 2T20
- 37dB, utilizing 200/230μm, Multi-mode Fiber to mated 2T14
- 43dB, utilizing 200/230μm, Multi-mode Fiber to mated 2T20

#### Analog Output Maximum Load:

- 600 Ohms

#### LED Indicators:

- Green - Lock (receiving adequate optical signal strength from transmitter)
- Amber - Over Range (of analog input signal)

#### Ambient Conditions:

- -40°C to 85°C Operational
- 0 to 95% Relative Humidity, Non-Condensing

* ST is a trademark of AT&T

---

Ultra Electronics, NSPI, P.O. Box 300, Round Rock, Texas 78680
Shipping: 707 Jeffrey Way, Round Rock, TX 78665
Phone: (512) 434-2850, Toll Free: (800) 880-9333, Fax: (512) 434-2901
Mail: fibersales@ultra-nspi.com
Home Page: http://www.ultra-nspi.com

Rev. 3/2013  Pub: RM0900665