**EOTec 2000**  
**Model 2R07**  
**Analog Link, Fiber Optic Receiver**

The Model 2R07 Fiber Optic Receiver converts optical data into a 0 to 10Vdc 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 2M01).

### SPECIFICATIONS

**Mechanical**

- **Mounting:** 35mm DIN Rail
- **Weight/Unit:** < 9oz (250g)
- **Case Material:** Plastic (UL94V-0)

**Power Requirements:**  
24Vdc ±10% at 200mA (top connections)

**Calibrated Output:**  
0 to 10Vdc (bottom connections)

**Wire Cable Connections:** Pluggable, Cage-Clamp, Screw Terminal Blocks, accept 12 to 24 AWG

**System Accuracy (FOT+FOR):** ± 0.1% of span (includes repeatability, linearity and hysteresis)

**Ambient Temperature Effect:** ± 0.002% of span / °C

**System Response Time (FOT+FOR):** < 2ms (10% to 90% input step change) transfer rates to 800Hz

**Optical Wavelength/Connectivity:** 850nm / ST* compatible

**Optical Dynamic Range:**  
- 25dB, utilizing 62.5/125μm, Multi-mode Fiber to mated 2T07
- 31dB, utilizing 62.5/125μm, Multi-mode Fiber to mated 2T10
- 37dB, utilizing 200/230μm, Multi-mode Fiber to mated 2T07
- 43dB, utilizing 200/230μm, Multi-mode Fiber to mated 2T10

**Analog Output Impedance:** < 0.1 Ohm

**LED Indicators:**  
- Green – LOCK, receiving adequate optical signal strength from transmitter
- Amber – OVR, analog input signal at the mated transmitter is above 10Vdc

**Ambient Conditions:**  
-40°C to 85°C Operational
- 0 to 95% Relative Humidity, Non-Condensing

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