

Model 10889A, 6 Output Fiber-Optic to Logic Adapter Operating Instructions



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General Description

The Model 10889A Fiber-Optic to Logic Adapter converts signals received via optical fiber into CMOS logic levels. The received signal is distributed to six individually-buffered outputs, each using a two-pin connector. Mating connectors are supplied with the unit.

The outputs deliver 0 to 5-volt logic signals¹, with a high output corresponding to fiber illumination. A green light-emitting diode (LED) is lighted whenever the output levels are high.

The 10889A is powered by an external 9.0 to 13.5 Vdc source. With all outputs fully loaded, the input current required will be less than 250 mA. A second green LED indicates that power is supplied to the unit. Power is supplied via a two-pin header, with included mating connector. The input is protected against reverse polarity.

1 Specifications

Input:	Fiber-optic signal via a 62.5/125m fiber; -10 to -24 dBm input level. Also usable with 50/125m, 100/140m, and 200m PCS fiber.
Output:	+5V CMOS signal via 6 two-terminal headers (mating connectors supplied).
Impedance:	10 ohms
Source/Sink Capability:	± 75 mA maximum per output, for 50% maximum duty cycle.
Power Input:	+9 to +13.5 Vdc, 250 mA
Size:	102 x 56 x 42 mm (4.0 x 2.2 x 1.7 in.), including mating connectors.
Weight:	165 grams (5.8 oz.)
Temperature:	Operating: -10°C to $+50^{\circ}\text{C}$ Non-operating: -40°C to $+75^{\circ}\text{C}$

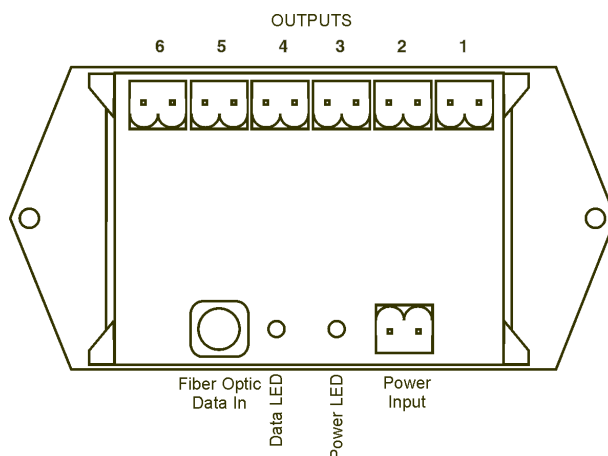


Figure 1: 10889A Fiber-Optic to Logic Converter

¹Refer to Application Note 101. See the Arbiter website at www.arbiter.com, Resources, Documentation.