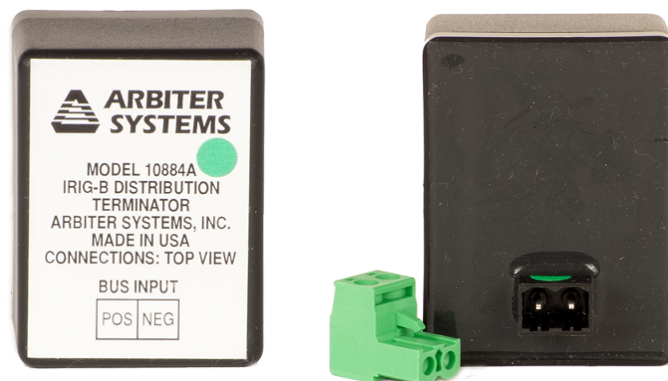


# Model 10884A

## IRIG-B Distribution Terminator

### Operating Instructions



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# 1 Introduction

These instructions cover the specifications and operation of the Model 10884A, IRIG-B Distribution Terminator. When connected to a system bus, the Model 10884A is used to provide a termination at one end of any linear distribution bus supporting your system loads.

The Model 10884A is one in a family of passive devices designed to distribute modulated IRIG-B signals to devices connected to a bus. Specifically the 10884A was designed to operate when connected to an Option 18 mounted in a Model 1088A/B GPS synchronized clock. Other devices in the IRIG-B distribution product family include the Model 10882A Distribution Tap, the Model 10883A Distribution Splitter, and the Model 10885A Redundant Ring Adapter. All of these devices may be combined to form a simple or complex bus system as seen in Figure 2, and are optionally available with DIN rail mounting clips.

## 2 Specifications

- Impedance: open circuit to IRIG-B signal, passes DC.
- Protection: surge suppression & EMI filtering.
- Size without DIN rail:  $52 \times 39 \times 45\text{mm}$  ( $2.0 \times 1.5 \times 1.8\text{in.}$ ), overall height including pluggable terminal connectors.
- Size with DIN rail & pluggable terminals:  $52 \times 39 \times 58\text{mm}$  ( $2.0 \times 1.5 \times 2.3\text{in.}$ ).
- Weight: with pluggable terminal connectors and without DIN rail mounts: 94g (3.30oz.).
- Connectors: Phoenix pluggable terminals (5-mm centers) with removable screw-clamp terminal block, accepting  $0.2 - 4 \text{ mm}^2$  (AWG 24 - 10) solid or stranded conductors.
- Temperature, operating:  $-10^\circ\text{C}$  to  $+50^\circ\text{C}$ , non-operating:  $-40^\circ\text{C}$  to  $+75^\circ\text{C}$
- Humidity: non-condensing

## 3 Operation

Strip twisted pair wiring approximately 1/4 inch and insert into input and output pluggable terminal blocks according to wiring diagram shown in Figure 1, and tighten screws to secure wire. Insert plug into terminal block on 10884A. *Do not tin stripped wire with solder before inserting into pluggable terminal blocks.* For additional details, see Application Note 101 available on the Arbiter Systems website, [www.arbiter.com](http://www.arbiter.com).

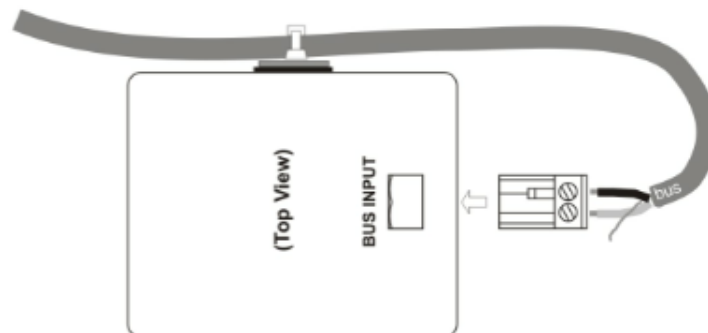
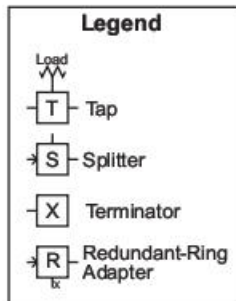
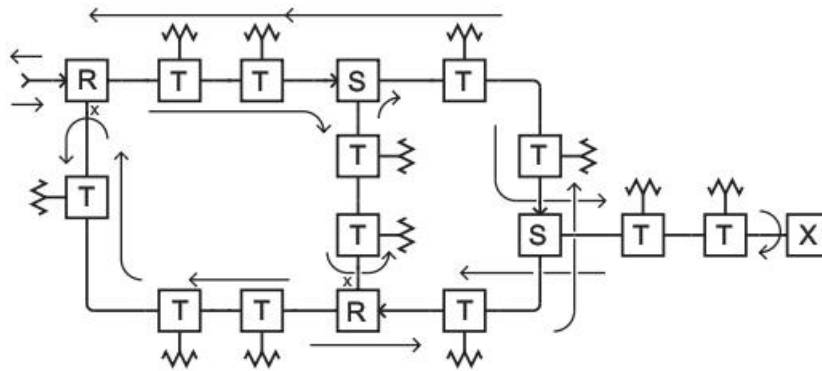
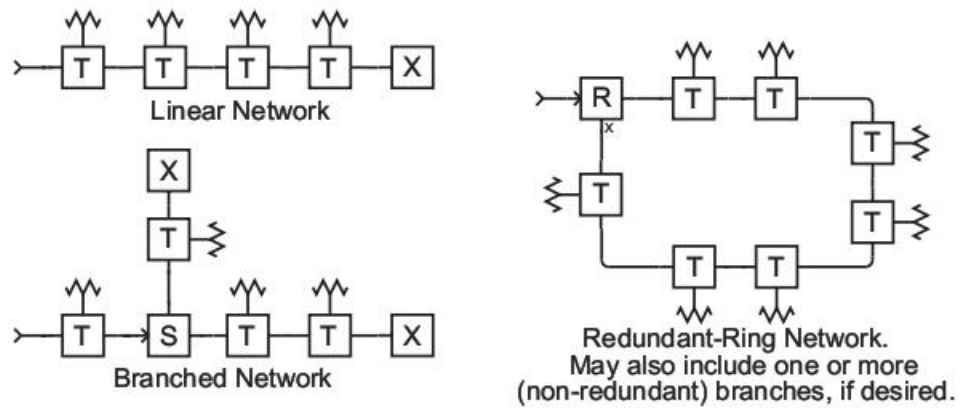


Figure 1: 10882A Connection Wiring Diagram



Complex network, showing multiple loops and branches. Arrows show direction of dc loop monitor current flow.

Bus Cable: Belden 8760 or equivalent; 18 AWG pair with foil-polyester shield and 20 AWG drain wire.

Figure 2: Typical Network Connections