



DISTRIBUTES TIMING SIGNALS
THROUGHOUT A SUBSTATION

ISOLATED TIMING DISTRIBUTOR

The Isolated Timing Distributor provides a simple method to reticulate unmodulated IRIG-B between rooms and/or rows of substation panels while maintaining electrical isolation.

Using Tekron's Isolated Timing Range of products, common time signals such as IRIG-B and pulses can be distributed throughout the substation via a balanced twisted pair or fiber cabling, providing excellent noise immunity from transients, induced voltage, and Earth potential disparity in different zones.

KEY FEATURES

- Receives TTL or fiber signals, and regenerates simultaneously on four channels over either TTL or fiber
- Balanced and Isolated inputs and outputs for excellent noise immunity

TEKRON

PHYSICAL

(W) 160 mm x (D) 155 mm x (H) 40 mm, 0.8 kg
1U 19" rack mount bracket accessory included
IP40 (Ingress Protection rating)

FRONT PANEL

2 LEDs indicating multiple statuses, including:
- Power
- Signal

INPUTS & OUTPUTS

Inputs:

Either:

1 x Copper (2-pin) 5 V, 2mA max TTL compatible/
High logic min threshold 2.5 V

or

1 x Fiber RX (ST) 62.5/125 μm , $\lambda = 820 \text{ nm}$, multi-mode
Receiver sensitivity -34.4 dBm

Outputs:

Either:

4 x Copper TTL (2-pin) 0-5 V, 150 mA
Output voltage unloaded: 5 V 150 mA loaded: 3.7 V

or

4 x Fiber TX 62.5/125 μm ,
 $\lambda = 820 \text{ nm}$, multi-mode Optical power output
-18 dBm

Termination

A 120 Ω resistor is fitted to the Isolated Timing Distributor when ordered with the copper input option, to facilitate termination of the multi-dropped bus to prevent signal reflection. To terminate the bus, simply connect a wire between the two terminals of the connector on the last Isolated Timing Distributor on the bus.

Internal Signal Delay:

TTL in to TTL out 125 +/-10 ns

TTL in to Fiber out 75 +/-10 ns

Fiber in to Fiber out 65 +/-10 ns

Fiber in to TTL out 110 +/-10 ns

ENVIRONMENTAL AND ELECTRICAL

Power supply: L = 14 - 36 Vdc (2pin)
M = 20 - 75 Vdc (2 pin)
H = 90 - 300 Vdc

Power Rating: 5 W max.

Operating Temperature: -10°C to +65°C

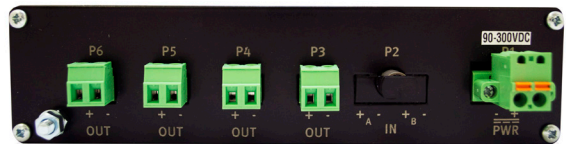
Humidity: 10 to 95% RH
(non condensing)

Isolation:

| | |
|----------------------------------|----------|
| Power to IO (LV/MV DC power): | 5 kVdc |
| Power to IO (HV DC/AC power): | 5 kVac |
| Power to Earth (LV/MV DC Power): | 2 kVdc |
| Power to Earth (HV DC/AC Power): | 3 kVac |
| Input to Earth: | 3.5 kVac |
| Output to Earth: | 3 kVdc |



Front Panel



Back Panel Fiber input with 4 x Copper outputs



Back Panel Copper input with 4 x Fiber outputs

ABOUT TEKRON

Tekron is a leading developer of accurate GPS/GLONASS clocks and time synchronisation solutions for use in industrial applications.



CONTACT US

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Note:
The quickest and most effective method to request a quote is through the online quote request form on the Tekron website.