

Transig Remote CT Isolation Unit Three Phase - 1250:1 Ratio

P/N 9701

The Mehta Tech, Inc. Transig P/N 9701 is one of a series of passive transformers for current signals. Designed as an auxiliary CT for 5 Amp nominal CTs, the Transig avoids extending the heavy CT wiring loop to the DFR. The secondary of the Transig may be connected to the DFR via 18 AWG, twisted, shielded pair cabling. Because the Transig produces a current output, it may be located hundreds of feet from the DFR without concern for voltage drop.

The 9701 model is a rail-mounted current transformer with two terminals for the transformer secondary and ground lugs for the chassis ground. Wiring connections for the transformer secondary outputs are for compression-type terminal blocks. This Transig is to be used with DFR Low Current Analog Input Isolation modules (Current/Potential TTMs) PN 9643 or PN 9486

Features/Physical Characteristics

- Easy connections for your field wiring to the recorder's analog channels
- The primary connection is non-intrusive, with one turn of CT secondary wiring around the core of the Transig.

Terminal Blocks

- **Current Carrying Material:** Non-ferrous nickel-plated material for high conductivity and long life with no galvanic action.
- **Transformer Wiring:** Isolation, compression type, terminal blocks, nickel-plated brass.
- **Ground Wiring:** Anti-corrosion lugs between mounting rail and wire.

Transig Mounting Dimensions

- **Compact Size: 6.00" H x 3.00" W x 1.9375" D**
Two 1/4" diameter holes on each plate for easy mounting.



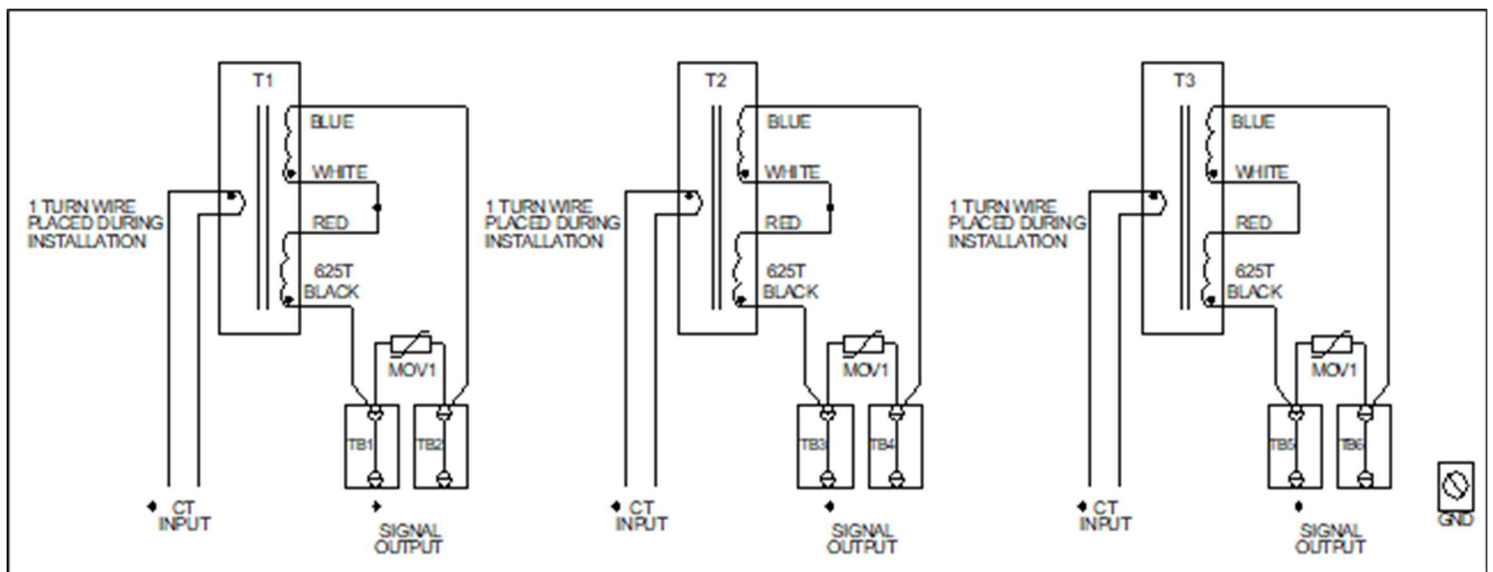
*Transig PN 9701, Remote CT Isolation Unit
Component Layout*

Specifications

- High Potential Rating: 2500V @ 60Hz
- Turns Ratio: 1250:1
- Approximate Burden: <100VA @ 100A (60Hz)
- Continuous Current: 15 Amps
- 1 Second Rating: 125 Amps
- Phase Angle Error: <1°@10 Amps Primary, 60Hz
- (Typical)
- Secondary Open Circuit Protection: Maximum clamping voltage is 21.6 Volts, nominal 18V
- Amplitude Response: Within 3db from 4Hz-6KHz (typical) with the input scaled for a maximum of 150Amps.

Typical Connection Diagram

The signal output is reduced by 1250 relative to the input current level, i.e., a 5 ampere CT input, resulting in a 4ma output signal.



Remote CT Isolation Unit (Transig) Connection Notes:

- The "CT Input" is your CT secondary circuit's "loop thru" area. There is a polarity "dot" on the transformer to aid in making the one turn around the core; please see the drawing above and the photo on the previous page for more details.
- The unit's chassis (rail mounted) ground connector connects to your substation ground.
- The "Signal Output" are the terminal blocks connected from the Transig to the DFR's Analog Input Isolation modules (Current/Potential TTMs) PN 9643 or PN 9486.