



4.2.12 Current RDT.

The current RDT measures a 0-20 mA DC input signal. The input of the transducer is fed from the output of an Alstom ISTAT 300 current transducer. The input to the ISTAT is from the secondary of a current transformer which is an AC current, which in turn is a measure of the circuit phase load. See block diagram below:

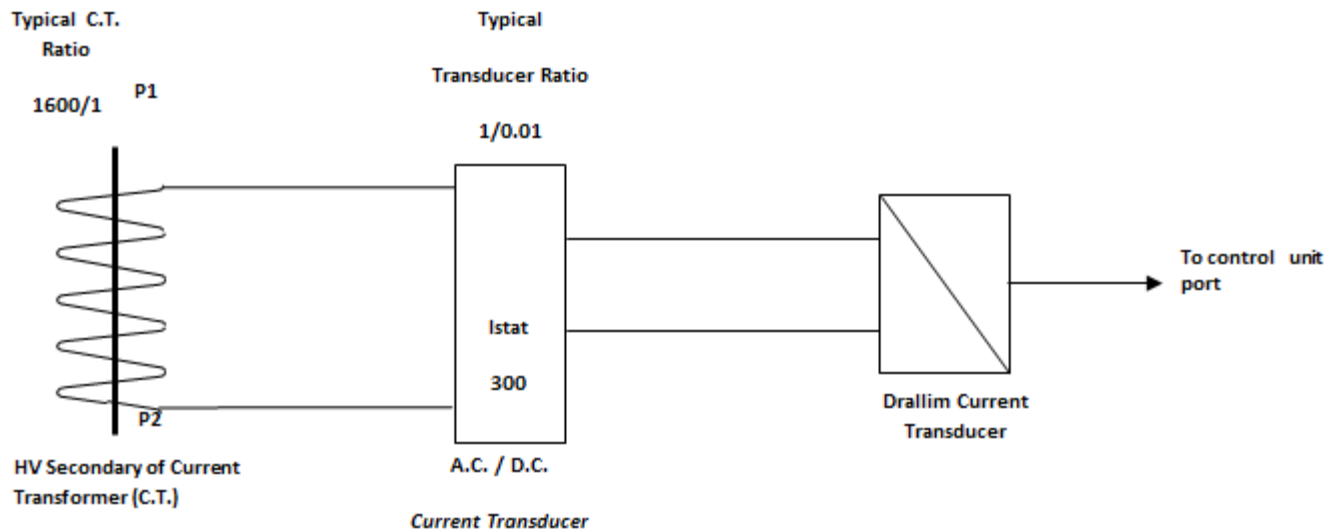


Figure 6: Current Transducer Installation (Block Diagram).

The scaling factor required to read the true value of load current is dependent on the details of the CT and ISTAT utilised and is entered in the DISEAL application. (See Section 3:PLANNING for examples)

The current RDT must not be subjected to induced voltages

Installation

The layout of the installation is shown in Figure 7 below.

- The Current RDT is enclosed in a wall-mounted unit and is normally located in the same room as the cable monitoring control equipment.
- The ISTAT 300 is provided with a mounting DIN-rail that also includes isolation terminals.
- Connect the transducer enclosure to the control equipment using a single ended Male Molex cable, either straight to control equipment port or via an intermediate terminal enclosure as required.
- The output from the ISTAT is connected into one of the inputs in the transducer enclosure using a Female 3-pin Molex connector. Up to 3 ISTATs can be connected into a single enclosure.

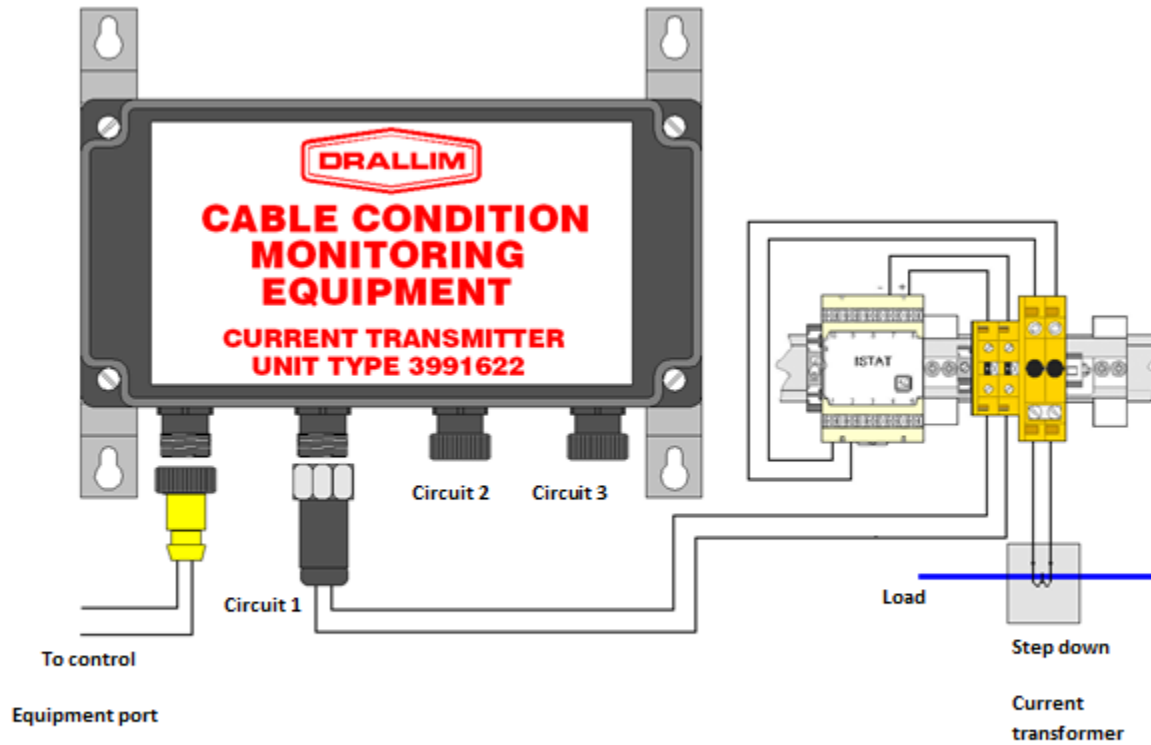


Figure 7: Current Transducer Equipment Installation.