

Current Transducer Module Programming Instructions

Description

Novar's Current Transducer Module (CTM) provides eight analog current transformer inputs in a metal enclosure for system use and alarms. The CTM is connected directly to an executive module.

This document provides instructions for programming the CTM in a Novar Energy Infosystem.

Programming

Use the following procedure to program the CTM.

Step	Procedure
1	Create each input for the CTM as a monitoring alarm point.
2	<p>Create a new IOM (not an IOM/2) when prompted to enter it into a module.</p> <ul style="list-style-type: none"> ■ This IOM can have up to 8 inputs. ■ Do not configure any output points on this module. <p>The module will show up in the software as an IOM but is really a CTM. It can be labeled as a CTM on the module configuration screen.</p>

The CTM's inputs can be logged, used as network inputs for load control, generate alarms, and be read by Novar Custom Language (NCL).

Sensor Scaling

Novar sells and recommends the use of its current transducer (CT). It has a 100:5 ratio and can work on loads rated up to 30 amps. For this CT, the sensor scaling is 0 to 30 amps.

Other CTs can be used for loads that exceed 30 amps, but the secondary of the CT must never exceed 1.5 amps. Use the following formula to calculate the sensor scaling if another CT is used:

$$\text{Sensor scaling at 20 mA} = (1.5 \times \text{CT primary amps}) / \text{CT secondary amps}$$

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For example, a CT that has a ratio of 500:5 would be:

$$(1.5 \times 500) / 5 = 150$$

Therefore, the scaling is 0 to 150 amps.

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