Chapter 2 Overview of the RTD Input Module

How Analog Modules Communicate with Programmable Controllers The processor transfers data to and from the module using block transfer write (BTW) and block transfer read (BTR) instructions in your ladder diagram program. These instructions let the processor obtain input values and status from the module, and let you establish the module's mode of operation (figure 2.1).

- The processor transfers your configuration data and calibration values to the module using a block transfer write instruction.
- External devices generate analog signals that are transmitted to the module.



Figure 2.1 Communication Between Processor and Module

- The processor and module determine that the transfer was made without error, and that input values are within specified range.
- Your ladder program can use and/or move the data (if valid) before it is written over by the transfer of new data in a subsequent transfer.

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