

Addressing

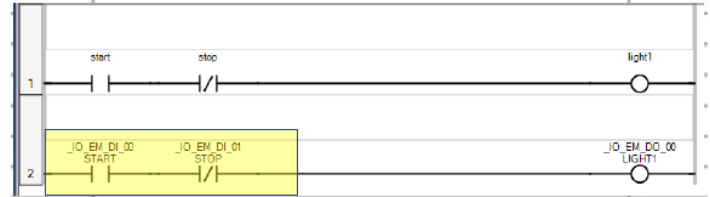
The Micro820 system uses data tags rather than an address.

| Name | Alias | Data Type |
|--------------|-------|-----------|
| _JO_EM_DO_00 | | BOOL |
| _JO_EM_DO_01 | | BOOL |
| _JO_EM_DO_02 | | BOOL |
| _JO_EM_DO_03 | | BOOL |
| _JO_EM_DO_04 | | BOOL |
| _JO_EM_DO_05 | | BOOL |
| _JO_EM_DO_06 | | BOOL |
| _JO_EM_DI_00 | | BOOL |
| _JO_EM_DI_01 | | BOOL |
| _JO_EM_DI_02 | | BOOL |
| _JO_EM_DI_03 | | BOOL |
| _JO_EM_DI_04 | | BOOL |
| _JO_EM_DI_05 | | BOOL |
| _JO_EM_DI_06 | | BOOL |
| _JO_EM_DI_07 | | BOOL |
| _JO_EM_DI_08 | | BOOL |
| _JO_EM_DI_09 | | BOOL |
| _JO_EM_DI_10 | | BOOL |
| _JO_EM_DI_11 | | BOOL |
| _JO_EM_AI_00 | | WORD |
| _JO_EM_AI_01 | | WORD |
| _JO_EM_AI_02 | | WORD |
| _JO_EM_AI_03 | | WORD |
| _JO_EM_AO_00 | | WORD |

Give the students a few examples of addressing for the Micro 820.

Point out an input or output and have the students predict the correct address – then compare answers.

This is also a good time to introduce the concept of an “Alias” which is similar to assigning a name or label to an address



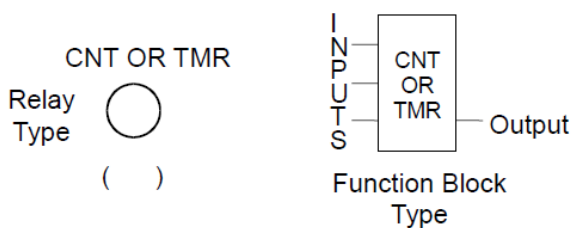
Notice the address tag AND the alias are assigned to each program instruction. Review this during the hands-on lab.

The **instruction set** is all of the different commands that a particular model of processor can understand

LOGIC INSTRUCTIONS



TIMERS AND COUNTERS



LOTS OF OTHER INSTRUCTIONS

- | | |
|----------------------|------------------|
| SPECIAL RELAY | SEQUENCERS |
| COMPARISON; <, >, = | MATH: +, -, *, / |
| CONVERSION FUNCTIONS | COMMUNICATIONS |

The entire instruction set can be found in detail in the General Instructions Manual for the 800 series, Chapter 1.

Below are the instructions for use with the Micro 820 PLC system.

