

19. STRUCTURED TEXT PROGRAMMING

Topics:

- Basic language structure and syntax
- Variables, functions, arrays
- Program flow constructs and constructs
- Functional models
- Program Examples

Objectives:

- To be able to write functions in Structured Text programs
- To understand the parallels between Ladder Logic and Structured Text
- To understand differences between Allen Bradley and the standard

19.1 INTRODUCTION

If you know how to program in any high-level language, such as Basic or C, you will be comfortable with Structured Text (ST) programming. ST programming is part of the IEC 61131 standard for programmable logic controllers (PLCs) (Figure 19.1). The program is coded using two to three characters for statements: `PROG`, `END`, and `CALL`. Every program begins with statements that define the variables. In this case the variable `i` is defined with an integer. The program follows the variable declaration. The program counts from 0 to 10 with a loop. When the example program ends the value of integer memory `i` will be set to zero. The `RESET` and `ENR` `DOFF` statements define the loop. The `ENR` statement defines when the loop must end. A loop is present to increment the value of `i` for each loop.

```

PROG AND main
VAR
  i INT;
END VAR
i := 0;
REPEAT
  i := i + 1;
UNTIL i = 10;
END_REPEAT;
END_PROGRAM
  
```

Note: Allen Bradley does not implement the standard so that the programs can be written with two calls. When programming to PLCs, only the variable declaration in the first would be correct. The variable `i` would be defined as a loop and the program would be defined as a loop.

Figure 19.1 A Structured Text Example Program

One important difference between ST and traditional programming languages is the scope of

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