

19. STRUCTURED TEXT PROGRAMMING

Topics:

- Basic language structure and syntax
- Variables, constants, arrays
- Program flow constructs and structures
- Function bases
- Program Examples

Objectives:

- To be able to write functions for 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. An example program is shown in Figure 207. The program is coded in two sets and is defined between the statements `PROGRAM` and `END_PROGRAM`. Every program begins with statements that define the variables; in this case the variable `i` is defined to be an integer. The program follows the variable declaration. This program counts down from 10 to 0 with a loop. When the example program starts the value of loop counter `i` will be set to zero. The `REPEAT` and `END_REPEAT` statements define the loop. The `UNTIL` statement defines when the loop ends and `IF` line is present to determine the value of `i` for each loop.

```
PROGRAM main
VAR
  i : INT;
END_VAR
i := 10;
REPEAT
  i := i - 1;
UNTIL i = 0
END_REPEAT;
END_PROGRAM
```

Note: Allen Bradley does not implement the standard so that the program can be written with two sets. When programming in IEC languages, only the variable definitions in the left would be entered. The variable `i` would be defined as `INT`, and the program would be defined as a task.

Figure 207 A Structured Text Example Program

The important difference between ST and traditional programming languages is the nature of

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Terry C. Jones



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