19. STRUCTURED TEXT PROGRAMMING

Topics:

- Basic language structure and syntax
- Variables, functions, values
- Program flow commands and structures
- Function names
- Program Example

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. An example program is shown in Figure 261. The program is called main 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 declarations. This program counts from 0 to 10 with a loop. When the example program starts the value of integer memory i will be set to zero. The REPEAT and END_REPEAT statements define the loop. The UNTIL statement defines when the loop must end. A line is present to increment the value of i for each loop.

```
PROGRAM 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 only. When programming in RSLogic, only the section indicated in the left would be entered. The variable 'i' would be defined as a tag, and the program would be defined as a task.

Figure 261 A Structured Text Example Program

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

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JL Elias

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