

Indirect Data Access Indirect Output

GETWORD S19 PUTWORD T29

DESCRIPTION

The special functions GETWORD and PUTWORD enable a 16 bit word to be stored (PUTWORD) or retrieved (GETWORD) from a data table location specified by a base data table location and an offset.

Typical applications include dictionary access and keypad decoding etc.

FEATURES

- Fast execution compared with alternative methods.

SPECIFICATION

Control language:-

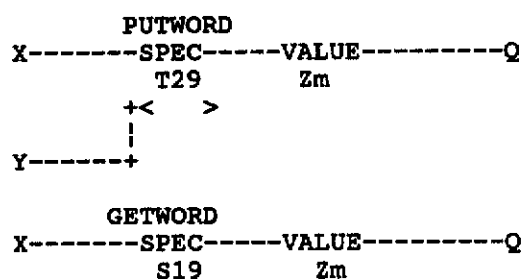


Table 1.1 Program rung data for PUTWORD

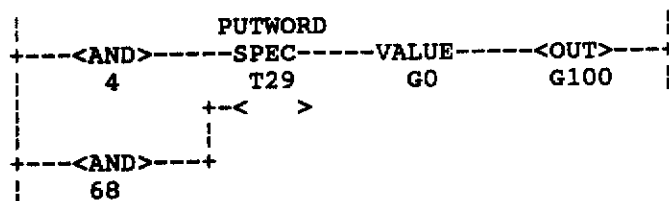
Sym	Location	Use	Range
X	Rung Input (Upper branch)	Offset to data in data list	+ve 16 bit integer
Y	Rung Input (Lower branch)	Value to be stored	Any 16 bit value
Q	Rung Output	Fault reporting	Failure = 0 Success = -1
Zm	Value location	Data location	Any write enabled data table

Table 1.2 Program rung data for GETWORD

Sym	Location	Use	Range
X	Rung Input (Upper branch)	Offset to data in data list	+ve 16 bit integer
Q	Rung Output	Value read	Default = 0
Zm	Value Location	First data location	Any data table usable by special function

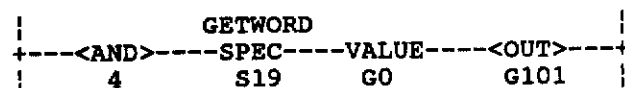
APPLICATION NOTES

1. PUTWORD



The value of 68 will be stored in data location G4 with the output G100 equal to -1 showing a successful write operation.

2. GETWORD



The output G101 will contain the value contained in data location G4 (68 following the previous example).



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