

CLOCK S55

Function

The CLOCK instruction is provided to allow writing to the real time clock tables, E1 to E6, from the GEM80-400/500 series ladder program.

Format

CLOCK
X -----SPEC-----VALUE----- Q
 S55 Zm

Symbol	Location	Use	Range
X	Upper Rung Input	Control of Special Function	0 = No Operation 1 = Operate
Zm	Value Location see below	Start of data tables containing time values (6 locations)	Any write-enabled table used by Special Functions
Q	Rung Output	Fault Indication	ON (@FFFF) = Clock not set (Invalid parameter). OFF (0) = Clock set OK.

The mnemonic CLOCK is not automatically recognised by GEM80 programming units but it can be added as a user defined mnemonic.

Zm Values

Location	Use	Range
Zm	Seconds	0-59
Zm+1	Minutes	0-59
Zm+2	Hours	0-24
Zm+3	Days	1-31 as month
Zm+4	Month	1-12
Zm+5	Year	1991-2090

Program Example

CLOCK
--] [-----SPEC-----VALUE----- ()--
H0.0 S55 G10 H10.0

G10 = Value to be written into E1
G11 = Value to be written into E2
G12 = Value to be written into E3
G13 = Value to be written into E4
G14 = Value to be written into E5
G15 = Value to be written into E6

If H0.0 is set ON for one scan of the PLC, the contents of G10 to G15 will be copied into E1 to E6 for that scan. When H0.0 is OFF the real time clock of the GEM80 400 will increment the E tables from the loaded values.