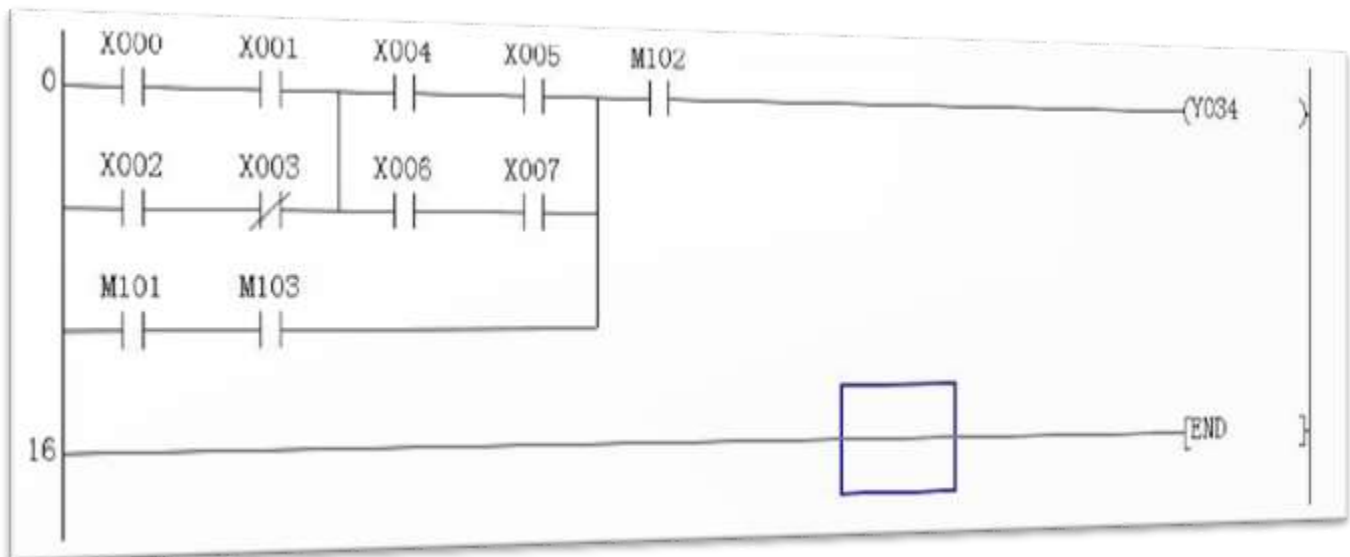




PLC training case

24-hour clock



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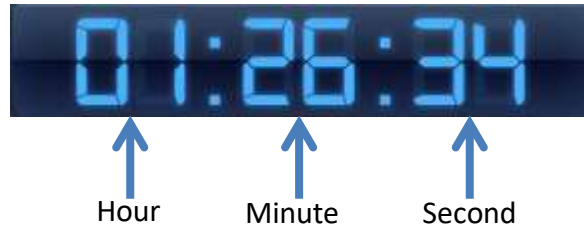
QQ Group: 465230233

Technical forum: <http://wecon.freeforums.net/>



1. Introduction

This case uses three counters to count time, it uses 24-hour clock as an example.



2. I/O list

Device	Registers	Description
Second	C0	For seconds
Minute	C1	For minutes
Hour	C2	For hours
	M8013	Oscillates once per second

3. Project



4. Explanation

The program uses M8013 (oscillation once per second) to provide pulses for the seconds counter C0.

When C0 counts up to 60, i.e., for one minute, C0 automatically reset, and triggers C1 to count 1.

When C1 counts up to 60, i.e., for one hour, C1 automatically reset, and triggers C2 to count 1.

When the C2 counts up to 24, C2 automatically reset, 24-hour count is completed. If the user needs a 12-hour clock, just change 24 to 12.