# **Siemens S7-1200**

CPU 1212C AC/DC/Relay

%DB1
"Counter"

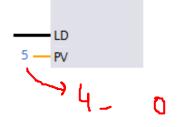
## Counter Operations (CTD)

Count Down

Exercise Example

CD Int Q %MD0

CV — "Present Value"





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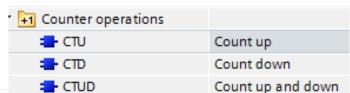


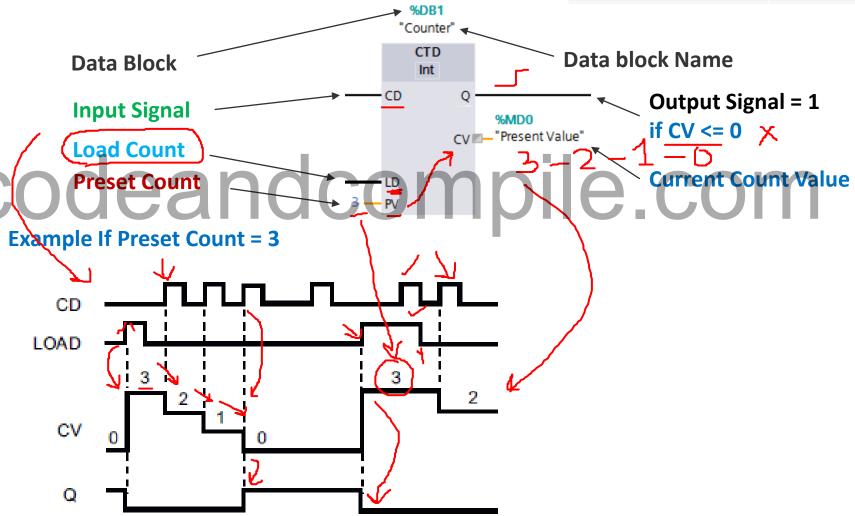
# STREET

### Counter Operations in LAD – CTD (Count Down)



Count Down The "count down" counter (CTD) counts down by 1 when the value of input parameter CD changes from 0 to 1.

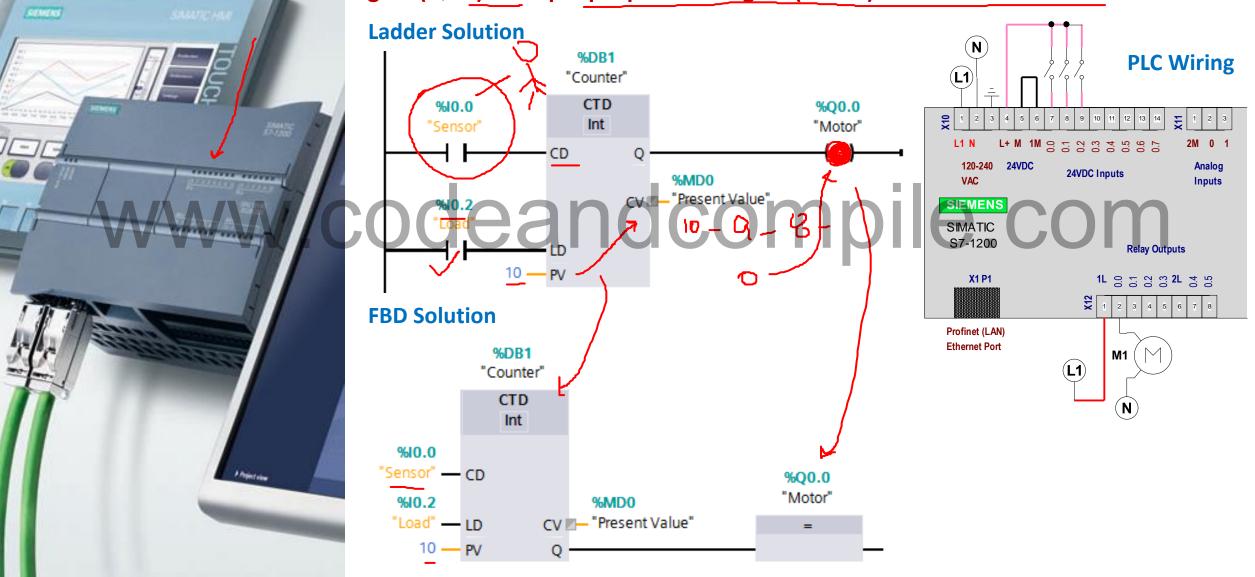




# Exercise Example



Write a logic by utilizing CTD to count the number of persons (10.0) passing from the gate (Q0.0). If 10 people passes the gate (motor) should be closed.



### What did we learn in this lesson?

- CTD is used to count the input in downwards direction
- If the value of parameter CV (current count value) is equal to or less than 0, the counter output parameter Q = 1.
- If the value of parameter LOAD changes from 0 to 1, the value at parameter PV (preset value) is loaded to the counter as the new CV.

Thank you

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