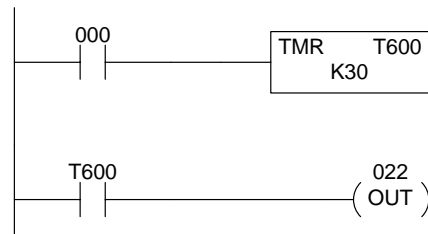


Timers and Timer Status Bits (T Data type)

You can have up to 64 timers/counters in a DL305 CPU. Both the timers and counters share the same memory area. This means you cannot have a timer T600 and a counter CT600 in the same program.

When you use these locations for timers, each timer has a status bit that reflects the relationship between the current value and the timer preset value. The timer status bit will be on when the current value is equal or greater than the preset value of a corresponding timer. The DL330P does not support the status bit. Instead, you have to use comparative boolean contacts. See Chapter 12 for details.

In the example shown, input 000 turns on to start timer T600. When the timer reaches the preset of 3 seconds (K of 30) timer status contact T600 turns on. When contact T600 turns on, output 022 is energized.

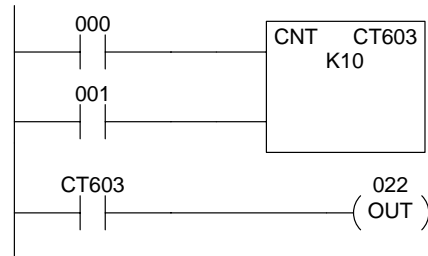


Counters and Counter Status Bits (CT Data type)

You can have up to 64 timers/counters in a DL305 CPU. Both the timers and counters share the same memory area. This means you cannot have a timer T600 and a counter CT600 in the same program.

When you use these locations for counters, each counter has a status bit that reflects the relationship between the current count and the preset value. The counter status bit will be on when the current value is equal to or greater than the counter preset value. The DL330P does not support the status bit. Instead, you have to use comparative boolean contacts. See Chapter 12 for details.

In the example shown, Each time contact 000 transitions from off to on, the counter increments by one. (If 001 comes on, the counter is reset to zero.) When the counter reaches the preset of 10 counts (K of 10) counter status contact CT603 turns on. When CT603 turns on, output 022 turns on.



Counter Current Values (R Data Type)

As mentioned earlier, some information is automatically stored in R memory. This is true for the current values associated with counters. For example, R600 holds the current value for counter 600, R601 holds the current value for counter 601, etc.

The primary reason for this is programming flexibility. The example shows how you can use comparative contacts to monitor several count values from a single counter.

