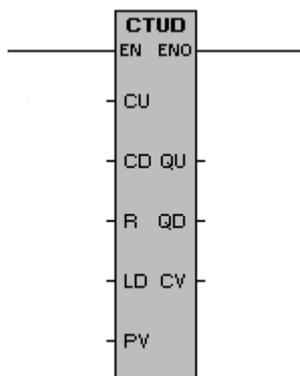


Sommario

CTUD (Up / Down Counter) 3

CTUD (Up / Down Counter)

| | |
|--------------------------------------|------------|
| Function name | CTUD_010 |
| Function version | 1.0 |
| Function state | stable |
| Compatibility with IEC61131-3 | compatible |

Graphic symbol :**Input / Output :**

| Name | Belonging Group | Access | Types of data | Description |
|------|------------------|--------|---------------|-------------------------|
| EN | Left Power Flow | | | IEC1131-3 enable input |
| CU | Normal | R, RW | F, B, W, L, S | Count up input |
| CD | Normal | R, RW | F, B, W, L, S | Count down input |
| R | Normal | R, RW | F, B, W, L, S | Reset counter |
| LD | Normal | R, RW | F, B, W, L, S | Load counter |
| PV | Normal | R, RW | B, W, L, S | Preset counter |
| QU | Normal | W, RW | F, B, W, L, S | Status counter Up |
| QD | Normal | W, RW | F, B, W, L, S | Status counter Down |
| CV | Normal | W, RW | B, W, L, S | Counter current value |
| ENO | Right Power Flow | | | IEC1131-3 enable output |

Description :

The function block Up/Down Counter counts forward or backward from the preset value on the raising front of the count up input (CU) or of the count down input (CD). When the current counter value (CV) is equal to the one preset, the output (QU) is activated. When the current counter value (CV) is equal to zero, the output (QD) is activated. The counter loads the current counter value (CV) with the preset value (PV) when the load input (LD) is activated. At the same time, the counter resets and loads the counter current value (CV) with zero when reset (R) is active and it stops counting when it reaches the preset value of zero.

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