



## Digital outputs peripheral module

### General features

DOM-PV module is designed to handle up to 8 digital outputs related to actuators of the PV system (remote resetting of breakers, on / off remote control of devices, etc ...), on command sent by the E2M-PV via ModBus on RS485 line.

The normal-status of each digital output can be configured independently of the others; commands sent by the E2M specify the monostable or bistable mode: in the first case, the output will remain in the active state for 5 seconds, then it will return to its normal status; in the second case, the output will remain in active state until next command.

DOM-PV module is equipped with 2 LEDs:

- green LED is lit with high blink (2 Hz, 50% duty cycle) to indicate the absence of interrogation by the master, and with slow blink (200 ms every 4 seconds) in case of regular communication (reception of a correct message in the last 30 seconds);
- red LED is used to signal fails (eg, reception with errors) and is automatically reset at the absence of the error condition.

### Technical specifications

- 8 open-collector digital outputs 30 Vdc . 10 mA
- RS485 serial line (3 wires)
- 2 signaling LEDs:
  - green for power / data link status
  - red for alarm
- 12 Vdc power supply directly from the E2M-PV-module
- 2.5 kV insulation between power supply and digital output channels
- Connections:
  - nr. 2 8-pin terminal blocks for digital outputs
  - nr. 1 10-pin terminal block for power / data cable incoming and outgoing: (3-pin for RS485 + 2-pin for power) x 2, for input and output to the next node
- Protocol: ModBus RTU, addressing by 4 dip-switches
- Enclosure: vertical DIN rail, IP30 degree of protection

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