

FD16M

16 Channels Modular Universal I/O Module

- 16 Universal I/O
- DIN-rail mounting
- Modular inputs
outputs
- Modbus RTU



Connections and Measurements

It can be used as Remote I / O under PLC. 16 pieces modular PORT by user can be adjusted according to your requirements. Allows you to use 5 different I / O Modules

- Digital Input (dry contact) – 2 input ports in a single module
- 0-10V Analog output
- 0-10V Analog input
- PT1000 input
- Digital (Relay) output

Communicates with MODBUS RTU protocol via 1 RS-485 connection
2 RS-485 ports on the device for easy operation.

The status of all ports is indicated by communication signal and electric LED

Technical Specifications

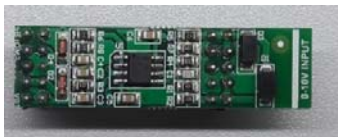
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|-------------------------------|---|
| General | : 8 Bit processor, 14 Bit A/D converter |
| Supply Voltage | : 24VAC \pm %10 (50 - 60 Hz) or 24VDC \pm %10 |
| Power Consumption | : 10VA |
| I/O Ports | : 16 Pieces Modular Port(5 different I/O modul connections) |
| Communication Protocol | : MODBUS RTU (Slave) |
| Operating Temperature | : -20 °C to 70 °C |
| Operating Humidity | : %5 to %85 |
| Storage Temperature | : -40 °C to 85 °C |
| Storage Humidity | : %5 to %95 (non-condensing) |
| Device Size | : 158 x 96.5 x 58.5 mm |
| Package size | : 196 x 134 x 62 mm |
| Weight | : 300 gr (I/O Modules Excluded) |
| Mounting | : 35mm DIN Rail or Wall Mounting |
| Termination | : Screw Terminal Block |

I/O MODULES :



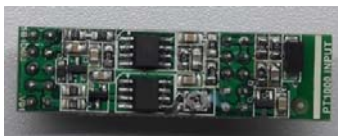
Digital Input

1. One module has 2 pieces digital inputs. The status of the input is seen on the LEDs A and B of the port to which it is connected



0-10V Analogue Input

1. 10V 14Bit read with precision
2. 0-20mA can be read with 500 Ω resistor to be connected to related port



PT1000 Input

1. PT1000 read the sensor.
2. Sensor information is read with 14 bit precision.



Digital Output

1. Module out put (Normally open contact).
2. Module output maximum (3A 220VAC').

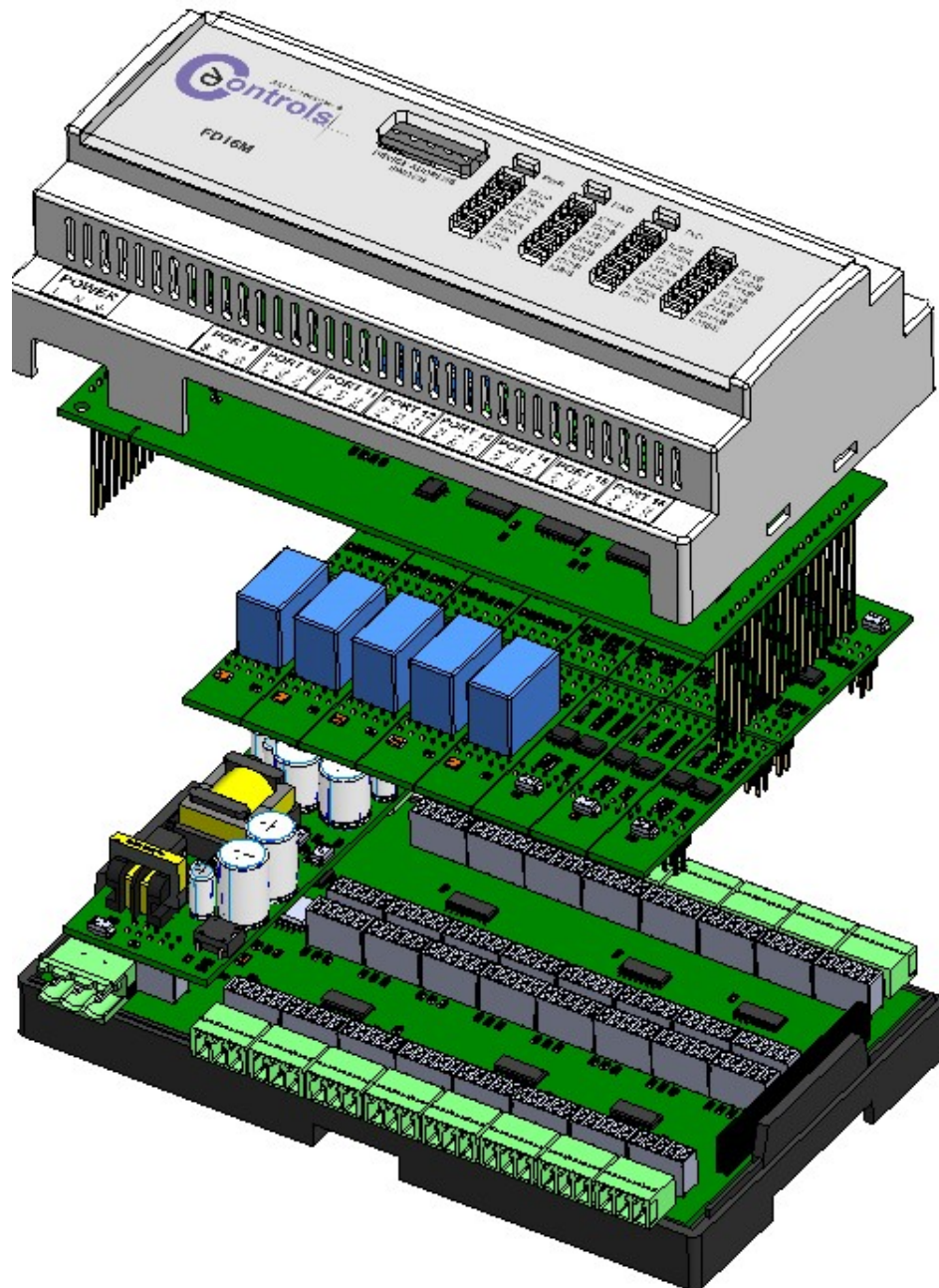


0-10V Analogue Output

1. Module output protected by ptc.
2. Module output can print maximum 10mA current.
3. 10V 12Bit precision adjustment.

I/O MODULE MONTAGE

The I / O Modules used in the product must be installed under the control card as shown in the drawing below. After ensuring that the I / O modules and the control card are correctly installed, the device cover must be closed. When all the cards are installed correctly, the cover of the device fits seamlessly. Electrical connection should not be made when the appliance door is open. The cards that are attached to the ports are shown for visual purposes.



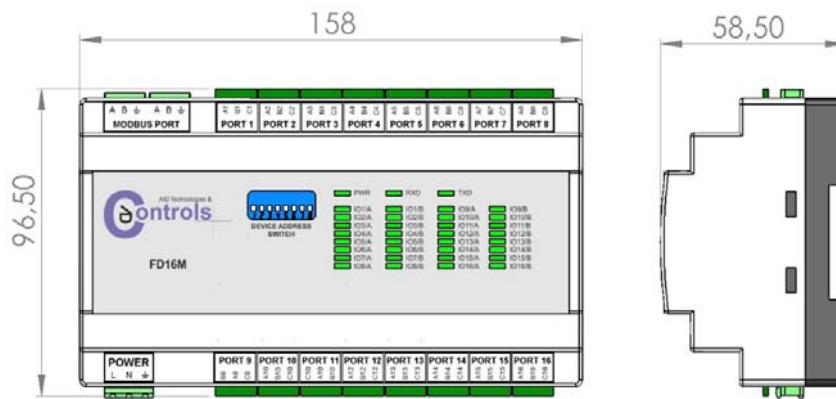
Modbus Address: FD16M The Deep-Switches on the device are used to supply the Modbus address. Up to 255 addresses can be given. Each deep-switch indicates a number in binary number sequence


- ❖ deep-switch 8 (ST128) = 128
- ❖ deep-switch 7 (ST64) = 64
- ❖ deep-switch 6 (ST32) = 32
- ❖ deep-switch 5 (ST16) = 16
- ❖ deep-switch 4 (ST8) = 8
- ❖ deep-switch 3 (ST4) = 4
- ❖ deep-switch 2 (ST2) = 2
- ❖ deep-switch 1 (ST1) = 1

Modbus Speed: The FD16M Module communicates via the RS485 serial port in the Modbus RTU protocol.

- ❖ **BaudRate** : 9600
- ❖ **Databits** : 8
- ❖ **Parity** : None
- ❖ **StopBits** : 1

DEVICE DIMENSIONS :



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|---|--|
| <p>Turkey : UL Listed,Files (TS EN 55024, TS EN 55032,TS EN 61000-3-2,TS EN 61000-3-3 TS EN 61000-4-3) Energy Management Equipment Equipment : (MIOS-100 FD 16M Model Only)</p> | <p>Compliance</p>  |
| <p>Contact : Helenium Twins Residence Soğanlık Yeni Mah.Baltacı Mehmet Paşa Sk. No:1 B/Blok D/1 KARTAL – İSTANBUL Phone : +90 216 306 31 28 Mail : www.5botomasyon.com</p> | |

The performance specifications are nominal and conform to acceptable industry standard. For application at conditions beyond these specifications, consult the AID Controls office. AID Controls shall not be liable for damages resulting from misapplication or misuse of its products.