AID Technologies & Controls

FD32DI

32 Digital Input Modbus Module

- 32 digital Input
- DIN-rail mounting
- Isolated Inputs
- Modbus RTU

Connections and Measurements

It can be used as Remote I / O under PLC. It has 32 digital isolated inputs.

o Digital Inputs (Dry contact)

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

Technicial Specifications

General	**:** 32 Bit işlemci ARM Cortex
Supply Voltage	**:** 24VAC ±%10 (50 - 60 Hz) veya 24VDC ±%10
Power Consumption	**:** 10VA
I/O Ports	**:** 32 Port Digital input
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	**:** 126 x 115 x 49 mm
Package size	**:** 126 x 115 x 49 mm
Weight	**:** 300 gr
Mounting	**:** 35mm DIN Rail or Wal
Termination	**:** Screw Terminal Block

Modbus Register address :

Register type (STATUS INPUT).Register addresses starting from 1 ito 32 status inputs.
(For PLC type can start from 0.)

Modbus Adress: FD 32DI The Deep-Switches on the device are used to set 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 FD32DI Module communicates via the RS485 serial port in the Modbus RTU protocol.You can use deep-switches to set 4 BaudRate speed .

❖ deep-switch 9 (off)	❖ deep-switch 9 (on)	❖ deep-switch 9 (off)	❖ deep-switch 9 (on)
❖ deep-switch 10 (off)	❖ deep-switch 10 (off)	❖ deep-switch 10 (on)	❖ deep-switch 10 (on)
BaudRate : 4800	BaudRate : 9600	BaudRate : 19200	BaudRate : 38400

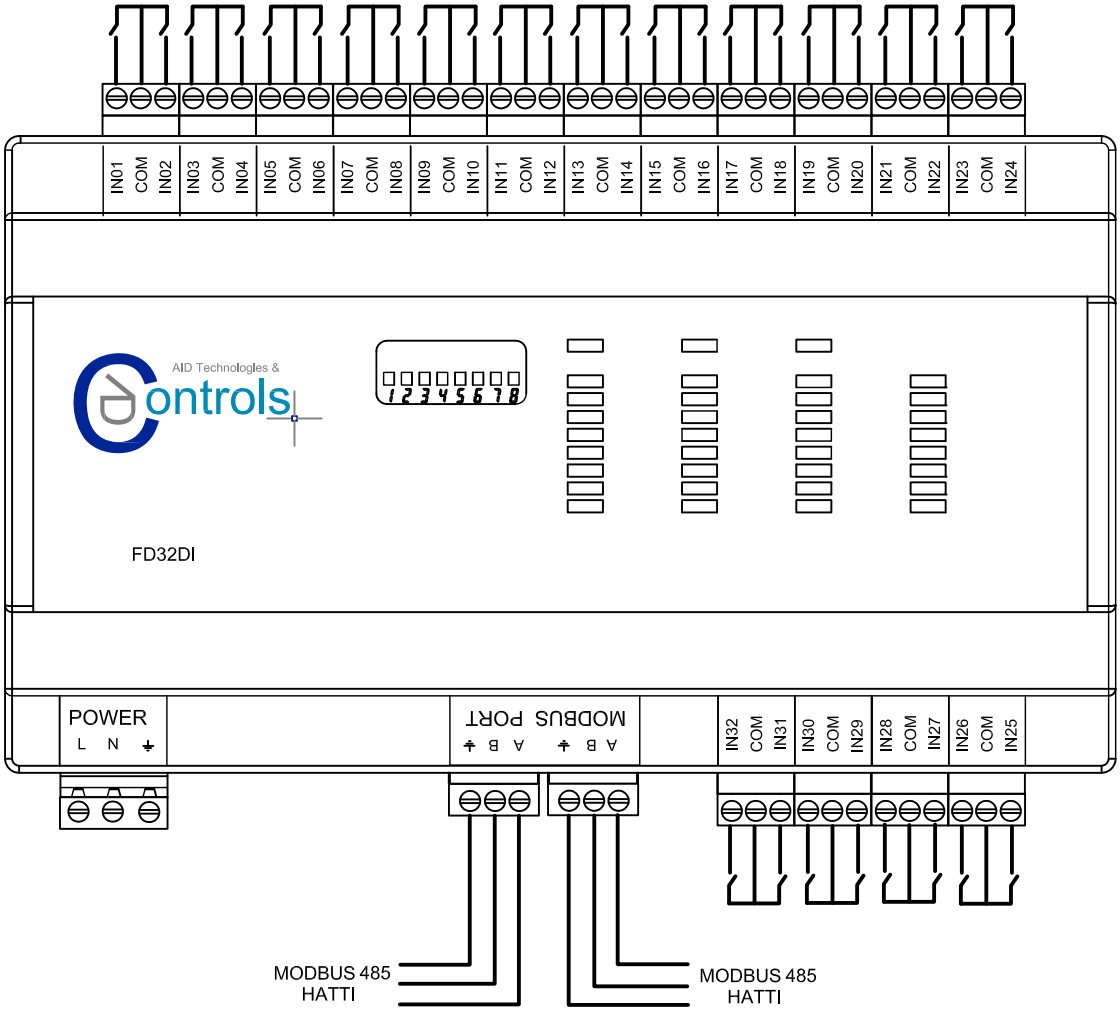
- ❖ **Databits** : 8
- ❖ **Parity** : None
- ❖ **StopBits** : 1

DATA REGISTER LIST :

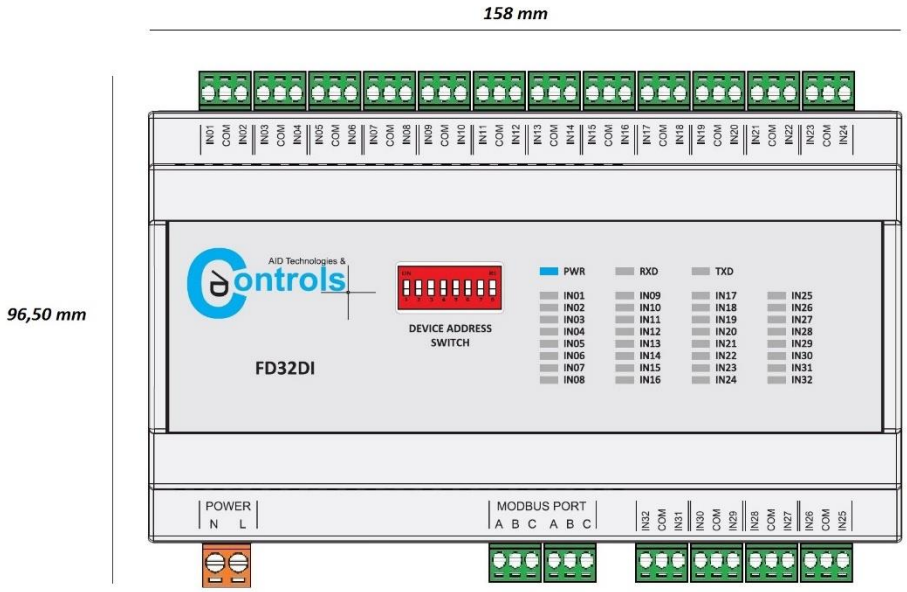
FD-32DI Register Map List

MODBUS ADDRESS	Register Name	Read Write	Register Type	Scale	Min	Max	Description
1	Digital Input 1	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
2	Digital Input 2	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
3	Digital Input 3	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
4	Digital Input 4	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
5	Digital Input 5	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
6	Digital Input 6	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
7	Digital Input 7	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
8	Digital Input 8	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
9	Digital Input 9	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
10	Digital Input 10	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
11	Digital Input 11	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
12	Digital Input 12	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
13	Digital Input 13	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
14	Digital Input 14	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
15	Digital Input 15	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
16	Digital Input 16	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
17	Digital Input 17	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
18	Digital Input 18	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
19	Digital Input 19	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
20	Digital Input 20	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
21	Digital Input 21	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
22	Digital Input 22	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
23	Digital Input 23	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
24	Digital Input 24	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
25	Digital Input 25	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
26	Digital Input 26	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
27	Digital Input 27	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
28	Digital Input 28	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
29	Digital Input 29	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
30	Digital Input 30	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
31	Digital Input 31	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON
32	Digital Input 32	Read Only	Input Status - U16	1	0	1	0=OFF / 1=ON

Wiring Diagram:



Device Dimensions:



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 :** (FD-32DI Model Only)	**Compliance** CE
Contact : Helenium Twins Residance Soğanlık Yeni Mah.Baltacı Mehmet Paşa Sk. No:1 B/Blok D/1 KARTAL – İSTANBUL **Phone :** +90 216 306 31 28 **Mail :** www.aidcontrols.com	

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