



M2-DI Digital Input Controller

The M2-DI digital input controller utilizes the M2 hardware platform, but comes with one or two M2-CDI plug in modules that plug into the M2 expansion slots. This eliminates any digital output functionality from the controller. The M2-DI is identical to the M2, it just removes digital outputs and replaces them with 16 digital inputs via the M2-CDI plug in cards. See the M2-CDI data-sheet for more information on how these digital inputs are wired and configured.

Specifications

Power Requirements

Input Voltage: 23 to 28 VAC 50/60 Hz

Consumption: 1.7 VA (without optional plug-in modules)
10.3 VA (all optional plug-in modules used)

Input Voltage Fuse: Resetable fuse rated at 1.1A at 24VAC

Inputs/Outputs

Analog Inputs:

- Eight (8) Analog Inputs.
- Can be independently configured for thermistor*, digital, 0-10vdc or 4-20mA.
- Up to 16 dedicated digital inputs via M2-CDI cards

* Thermistor Inputs are 3k, 10k, 100kohm thermistor, Type 3.

Analog Outputs:

- Eight (8) 0-10vdc Analog Outputs*.

* Can drive down to 10Kohm loads at 10vdc

Operating Environment

Temperature: 40 to 140 F (4 to 60 C) *

Humidity: 10-90% Relative, noncondensing **

* Storage Temperature: -10 to 150 F (-23 to 66 C)

** Storage Humidity: 0-95% Relative, noncondensing

Network Communication

Method: RS-485

Cable: 3 conductor, 18 guage, shielded, up to 8000ft max.

Baud Rate (selectable): 57.6k, 38.4k, 19.2k, 9600, 2400, 1200

Memory Backup

Battery: 7 year lithium

Physical Dimensions

Height: 70 mm (2.75 in)

Width: 78 mm (3.0 in)

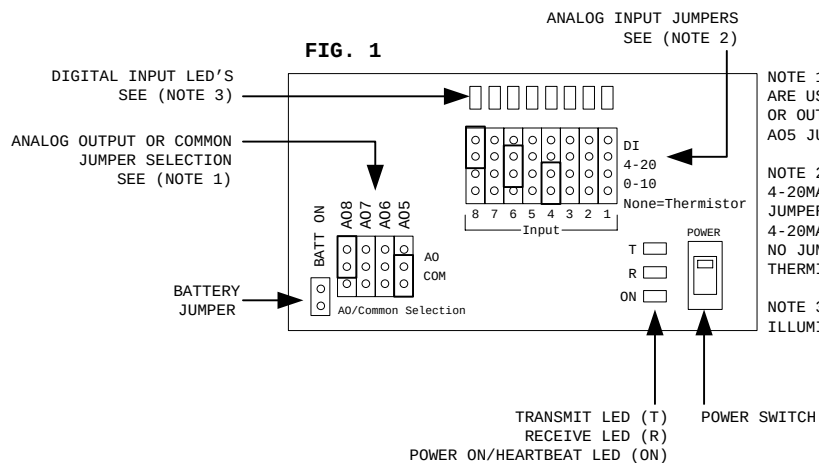
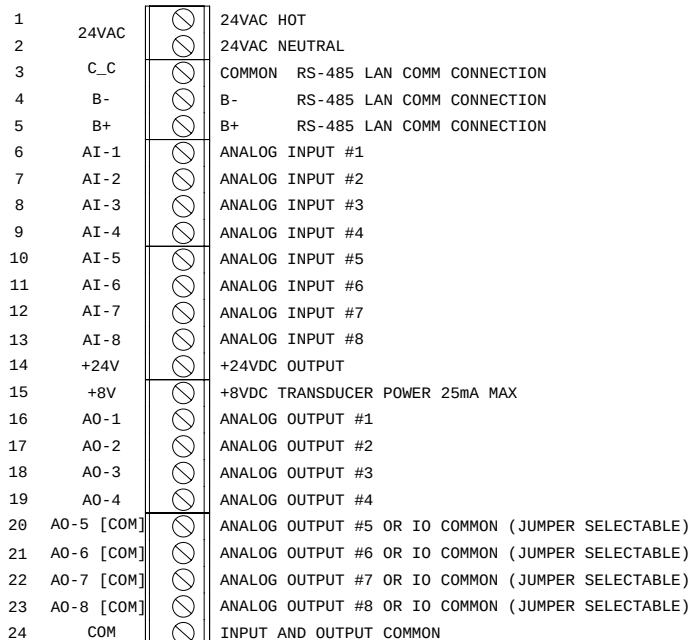
Length: 160 mm (6.3 in)

Mounting Holes: 148.5 mm (5.85 in) Center to Center

Weight: 1.2 lb

Agency Approvals

Listed Device: UL Listed under E76576 24G9



- Make sure that BATT JUMPER is in place before powering unit ON with on board POWER switch.
- When unit is powered, ON LED will flash 1 second on, 1 second off continuously when controller is operating properly. This flashing serves as a heartbeat indicator and that the unit is on. It will not flash or illuminate when unit is powered off.
- When inserting or removing plug-in modules or display units such as DU-1, M2 must be powered OFF or damage will occur.
- M2-DI is internally protected from over current by a 1.1 amp self resetting fuse. This will protect the 24VAC transformer powering the M2-DI from being damaged due to the unit failing internally.
- The +8v output is used for future low power Solidyne transducers.