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PRODUCTS & IO EXPANSION MODULES (...NETWORK-SENSORS-IO-EXPANSION-MODULES)

>  
[DFM-400 / DFM-404 / DFM-440](#)

## DFM-400 / DFM-404 / DFM-440

The DFM-400/404/440 provide remotely expandable I/O to Delta's BACnet™ Controllers. These field modules provide 4 universal inputs, in three different output configurations, and are capable of communicating on Delta's LINKnet network or directly on an RS-485 BACnet MS/TP network (DFM-400 model only).

When connected to a LINKnet network the DFM-400/404/440 provides remote input and programmable output capabilities to the controller. When connected on the MS/TP network (DFM-400 only) the modules function as independent BACnet devices with inputs accessible over the BACnet MS/TP network.

[Overview](#)

[Specification](#)

### Application

The DFM-400/404/440 suits a diverse range of application needs where additional inputs and outputs are required, or where a small number of I/O's are remotely located.

### Features

Native BACnet device (DFM-400 only) supporting communication on an RS-485 BACnet MS/TP network

Supports communicating on LINKnet

Easy-to-mount housing

Derived Network Addressing (DNA) for simple integration into a standard network architecture

Extended temperature range for extreme ambient situations

### BACnet Device Profile

BACnet Application Specific Controller (B-ASC)

### Inputs

4 Universal inputs – 10 bit (supporting 0-5v, 0-10v, 10kΩ, 4-20mA)

### Outputs

DFM-400: None

DFM-404: 4 Binary triac outputs, 0.5 Amp @ 24 VAC, jumper selection for internal or external power on binary outputs, LED status indication

DFM-440: 4 Analog outputs (0-10v), maximum 20 mA, LED status indication

### Technology



## Related Products

### IO Expansion Modules (DFMs)

DFM-400P [\(/products/hvac/network-sensors-io-expansion-modules/dfm-400p\)](#)

DFM-1600 [\(/products/hvac/network-sensors-io-expansion-modules/dfm-1600\)](#)

DFM-1616 [\(/products/hvac/network-sensors-io-expansion-modules/dfm-1616\)](#)

Individual Zone  
Controllers  
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-zone-controllers)

Ethernet & PoE  
(/products/hvac/ethernet  
-poe)

8-bit Processor with internal A/D, Flash and RAM

#### Device Address

LINKnet Connection, set via DIP switch and jumpers, DIP switch address range: 1 to 12

#### Communications Ports

LINKnet Connection, Delta LINKnet @ 76800 bps BACnet MS/TP connection @ 9600, 19200, 38400 or 76800 bps(default) (maximum of 99 controllers per BACnet MS/TP segment) (DFM-400 only)

#### Connectors

Removable screw-type terminal connectors

#### Wiring Class

Class 2

#### Power

24 VAC

6 VA

DFM-400: 4 VA

DFM-404: 52 VA

DFM-440: 6 VA

#### Ambient

-40° to 140°F (-40° to 60°C), with enclosure

10 - 90% RH (non-condensing)

Internal electronics rated from -40° to 85°

#### Dimensions

5.5 x 4.0 x 1.78 in. (13.75 x 10 x 4.8 cm) with housing

0.38 lb. (171 g) with housing

#### Compliance

CE

FCC

#### Listings

UL 916 Listed

UL 864 Listed (DFM-400-UL864,

DFM-404-UL864, DFM-440-UL864 only)

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IO Expansion Modules (DFMs)

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