# Field Modules

## DFM-400P

### Description

The DFM-400P Pulse Input Field Module provides specialized I/O to Delta's BACnet™ controllers in the form of four pulsed inputs. It communicates directly on a RS-485 BACnet MS/TP network, where it functions as an independent BACnet device. The pulse input points are accessible to other BACnet devices over the BACnet MS/TP network.



### Application

The DFM-400P is ideal for monitoring electrical, water, gas, and various flow meters or use in a diverse range of other applications that require pulse input monitoring. It is capable of handling pulses from 0 to 200 Hz on all four pulse inputs and 0 to 2000 Hz on two pulse inputs.

Additional strategies associated with the pulse counter values can be programmed through GCL+ in other controllers on the network.

### Features

▶ Native BACnet device

▶ Pulse totals are backed-up in EEPROM during power outage

▶ Key pulse count values are mapped to standard BACnet variables for multi-vendor integration

▶ BACnet MS/TP network communication

▶ Easy-to-mount housing

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

▶ Incorporates Delta's MS/TP autobaud feature which removes the need to manually set up the device's baud rate

### Specifications

**Inputs**
2 Pulse inputs (PI1 and PI2) @ 0 - 2000 Hz each

2 Pulse inputs (PI3 and PI4) @ 0 - 200 Hz each

Monitors either dry contact or open collector signals

Jumper selectable DEBOUNCE circuitry for mechanical contacts (for pulses less than 200 Hz)

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

Software clock

LED status indication of the CPU

**Device Address**
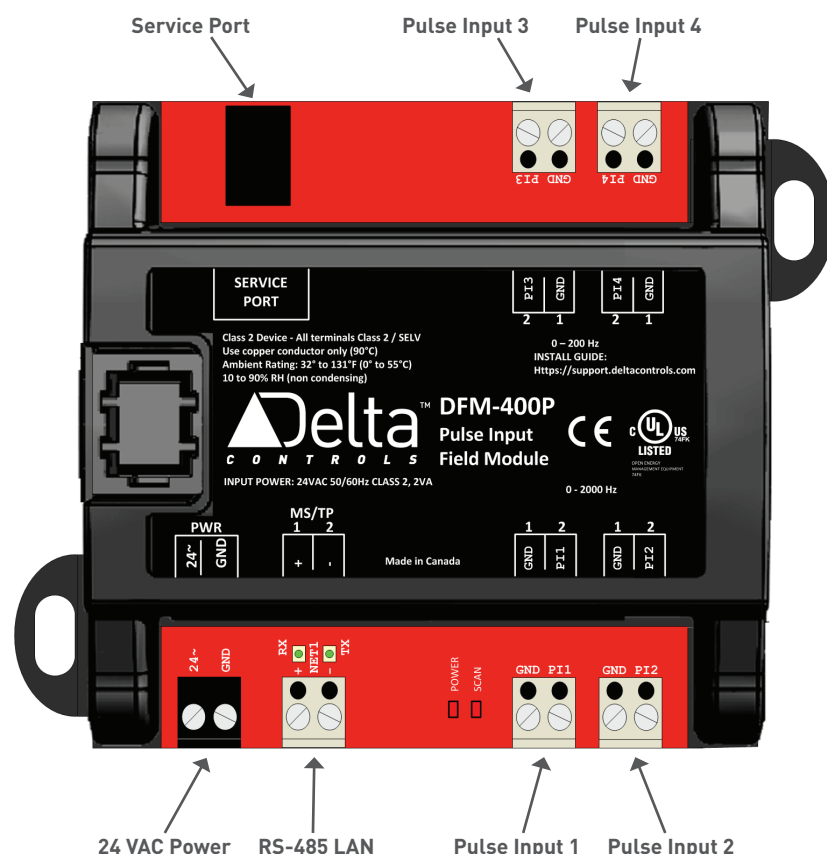Set via DIP switch or software setup

DIP switch address range: 1 to 99 per BACnet MS/TP network segment

Software switch address range: as per the BACnet standard

Supports Delta's derived network addressing (DNA) scheme

# Field Modules

## DFM-400P: Board Layout Diagram

Service Port    Pulse Input 3    Pulse Input 4

SERVICE PORT

GND PI3    GND PI4

Class 2 Device - All terminals Class 2 / SELV
Use copper conductor only (90°C)
Ambient Rating: 32° to 131°F (0° to 55°C)
10 to 90% RH (non condensing)

PI3  GND    PI4  GND
2    1      2    1

0 – 200 Hz
INSTALL GUIDE:
Https://support.deltacontrols.com

**Delta™**
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**DFM-400P**
Pulse Input
Field Module

CE   c(UL)us LISTED
OPEN ENERGY MANAGEMENT EQUIPMENT 74FN

INPUT POWER: 24VAC 50/60Hz CLASS 2, 2VA

0 - 2000 Hz

PWR         MS/TP
24~  GND    1    2
            +    -        Made in Canada

1    2      1    2
GND  PI1    GND  PI2

24~  GND    RX  NET1  TX    POWER  SCAN    GND  PI1    GND  PI2
            +        -

24 VAC Power    RS-485 LAN    Pulse Input 1    Pulse Input 2

## Ordering
Order the Pulse Input Field Module according to the following product number

| DFM-400P | Delta Pulse Input Field Module |
|----------|-------------------------------|

### Accessories

| DZNR-768 | Delta Network Repeater for BACnet MS/TP |
|----------|------------------------------------------|
| TRM-768 | Delta Network Terminator for BACnet MS/TP |

Subject to change without notice.

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