

# M-series Fieldbus H1 Carrier



The DeltaV™ M-series Fieldbus H1 Carrier is your field-mounted fieldbus I/O carrier solution.

- Mixes conventional and fieldbus devices on same segment
- Uses DeltaV™ Classic I/O cards on a fieldbus segment
- Reduces wiring costs

## Introduction

It is now possible to connect your field-mounted discrete I/O to your fieldbus segment and take advantage of the *substantial reduction in wiring and associated costs* that are typical of the fieldbus architecture. The M-series Fieldbus H1 Carrier is programmed to accept DeltaV Classic I/O discrete signals and transmit the signals over the fieldbus segment to the controller. Now you have control in the field or in the controller for your non-fieldbus devices.

Use the DeltaV M-series Fieldbus H1 Carrier as remote I/O to bring in 16 signals on one segment, thereby *greatly reducing costs*.

**Benefits**

**Mixes conventional and fieldbus devices on same segment.** For signals or measurements not available on fieldbus, connect your conventional devices to DeltaV Classic I/O cards in the DeltaV M-series Fieldbus H1 Carrier and obtain the benefits of the DeltaV PlantWeb™ architecture. The DeltaV system automatically knows that a new device has been added to the fieldbus segment and seamlessly activates the new device.

**Uses DeltaV Classic I/O cards on a fieldbus segment.** The M-series Fieldbus H1 Carrier uses DeltaV M-series Classic I/O cards, the same DeltaV M-series Classic I/O cards that are used in the rest of your system. This ensures easy maintenance and reduces inventory. Currently the M-series Fieldbus H1 Carrier handles one 8-channel DI card and one 8-channel DO card.

**Reduces wiring costs.** Take advantage of the substantial reduction in wiring and associated costs that are typical of the PlantWeb architecture for your conventional signals.

**Product Description**

The DeltaV M-series Fieldbus H1 Carrier uses bussed field power. Slot 1 supports any 8-channel DI card and slot 2 supports any DO card. A multi-channel function block inside the M-series Fieldbus H1 Carrier brings the 8 channels to one function block.

The DeltaV M-series Fieldbus H1 Carrier is a 2-wide carrier that comes with or without an enclosure. DeltaV M-series Classic I/O cards (8-channel DI and DO) are enclosed in a common form factor that easily plugs into the M-series Fieldbus H1 Carrier. Clearly visible LEDs on the top of the I/O card display the power, error, and status of the 8 channels.

The M-series Fieldbus H1 Carrier can be DIN-rail mounted or panel mounted. Wiring is easy because the fieldbus segment and the bussed carrier power are on removable connectors.

**Hardware Specifications**

Common Environmental Specifications for all I/O Carriers and Power/Controller Interfaces	
Category	Specifications:
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Operating Temperature	-40 to 70 °C (-40 to 158 °F)
Relative humidity	5 to 95% , non-condensing
Airborne contaminants	ISA-S71.04-1985 Airborne Contaminants Class G3 Conformal coating
Protection rating	IP 20, NEMA 12
Hazardous area/location	ATEX EEx nA IIC T4 Class 1, Div. 2, Groups A, B, C, D, T4
Shock	10 g ½-sine wave for 11 ms
Vibration	1 mm peak-to-peak from 5 to 16 Hz; 0.5 g from 16 to 150 Hz

### Ordering Information

Description	Model Number
M-series Fieldbus H1 Carrier without enclosure	VE4052M0
M-series Fieldbus H1 Carrier with enclosure	VE4052M1

### Prerequisites

- Device Definition Install Kit Revision 2

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