

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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Or call us at:

Asia Pacific: 65.6777.8211

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