

M-series Fieldbus H1 Carrier

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



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

Introduction

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 Discrete I/O cards 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 Discrete 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. 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 8-channel DO card. **Both DI and DO card have to be configured and installed for the device to work properly.** 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. I/O cards have to be ordered separately.

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
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

*Operating any electronics at the higher end of its temperature range for long periods of time will shorten its expected lifetime, see **Effects of Heat and Airflow Inside an Enclosure** White Paper for more information.

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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