

Installation Guide
 MHM-97923-PBF

Installing AMS Asset Monitor hardware
 October 2025

interfaces to daisy chain AMS Asset Monitors. Because of the possible network traffic, Emerson recommends that no more than eight AMS Asset Monitors are daisy chained.

The following parts are at least required to set up an operable system:

- AMS Asset Monitor
- +24 V DC Power Module
- CHARMS (CHARM types in accordance with the supervision tasks)
- CHARM Terminal Blocks suitable for the selected CHARMS
- Cable glands, suitable for the environmental conditions on-site
- Address plug with suitable terminal block

The AMS Asset Monitor supports the VI Piezo CHARM, the VI Voltage CHARM, the VI Tach CHARM, and the DeltaV hardware listed in [Table 4-1](#).

Table 4-1: Supported DeltaV devices

Hardware	Type number	Description
RTD CHARM	KL3031X1-BA1	CHARM for temperature measurement with RTD sensors
Thermocouple/mV input CHARM	KL3032X1-BA1	CHARM for temperature measurement with Thermocouples
AI 4 to 20 mA CHARM ¹	KL3021X1-BA1	Analog input CHARM for 4 to 20 mA signals
DI 24 V DC Low-Side Sens (dry contact) CHARM	KL3003X1-BA1	Discrete input CHARM for sensing relay/switch contact closure
DO 24 V DC High-Side CHARM	KL3002X1-BA1	Discrete output CHARM for momentary output signals or continuous pulse outputs
Standard Terminal Block	KL4502X1-BA1	Terminal block for connection most of the CHARMS
Thermocouple/mV Terminal Block	KL4502X1-NA1	Terminal block for thermocouple sensors or mV signals
Relay Output Terminal Block	KL4502X1-MA1	Output terminal block with relay contacts
Address Terminal Screw Block	KL4502X1-DA1	Screw terminal block for address plug
Address Terminal Plug #1	KL4501X1-BA1	Address plug
CHARM Protection Cover	KL4502X1-QA1	Protection cover that fits all terminal blocks
Channel Identifier Label/Wiring Cover	SE4606T04	Horizontal channel identifier label

¹ No HART (*H*ighway *A*ddressable *R*emote *T*ransducer) support.

5.12 CHARM Protection Cover

Use the CHARM Protection Cover to protect unused CHARM Terminal Blocks from damage. The CHARM Protection Cover does not affect the key setting on the CHARM Terminal Block. See documentation provided with the Protection Cover for installation and further details.



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PRODUCT: KL4502X1-QA1 / DeltaV CHARM Protection Cover

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