AHD-LV
AHD-LV series
Advanced Digital Motor Controller



The **AHD-LV Advanced Digital Hoist Controller** was designed to control **up to 24 electrically compatible motors**, either separately or simultaneously – controlled via **CMCseries Digital Cable Remote Controller**.

The device is equipped with unique **APA** (**Automatic Phase Align**) module, which guarantees that the **motors** are moving **in the same direction** on any align of input phases. If any line wire is disconnected, the hoist controller stops to ensure **safe operation**.

Another feature of **AHD-LV** is the **AVM** (**Automatic Voltage Metering**) module. This module checks main voltage for AC 400V +-20%, **star configuration** and **protects the hoists** in case of problem with main voltage.

The unit will **NOT** go into the safe function if:

- **one phase is missing**
- **there is under-voltage on lines**
- **there is over-voltage on lines**

All electrical components carry their own individual **CE** and comply with the **European Directives**. The unit is housed in a **robust steel 19" rack** with powder coating and complies with CE according to the **Certification of conformity** that comes with it.

The **AHD-LV** has an additional **key switch** for the **Group-stop function**. When active, the **MCB trip** of any hoist will cause an **E-STOP** on all connected hoists.

If remote control is needed, **please add one of following control stations**:

- **CMC-DIGI-AHD controller** - Directional rem

- Controls **up to 24 hoists from remote**
- Controls **up to 384 hoists via AHD link**
- Hoist types: **BGV D8, BGV D8+**
- **Emergency STOP** circuit according to: **IEC60204, SIL3**
- Power output for WMCseries via **PowerCon connector**
- **1.5m 5G6/5G10mm2 power cable** with **CEE32A/5p** or **CEE63A/5p** connector
- Outputs protected by **RCD30mA** and **C10A/C16A** per output MCB

Features:

- **APA** - Automatic phase sequence check and align
- **AVM** - Automatic voltage check and hoist protection
- **GCT -** Group channel control via CMG remote
- **RRST -** Remote reset function

Compatible with:

- **Chainmaster/Movecat/Liftket/Tourrig**
- **CM lodestar**
- **GIS**
- **LITEC/EXE**
- **Trabes**
- **Prolyft**
- **Verlinde/Stagemaker**

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Variants

Outputs: snap-in terminals

- *945316* AHD4-LV-SCT 4-ch, 6U, snap-in terminals
- *945320* AHD6-LV-SCT 6-ch, 6U, snap-in terminals
- *945309* AHD8-LV-SCT 8-ch, 6U, snap-in terminals
- *945329* AHD12-LV-SCT 12-ch, 6U, snap-in terminals
- *945334* AHD16-LV-SCT 16-ch, 9U, snap-in terminals
- *945303* AHD24-LV-SCT 24-ch, 12U, snap-in terminals

Output: Socapex 19

- *945318* AHD4-LV-DSX 4-ch, 6U, 1xSX19M+F
- *945322* AHD6-LV-SX 6-ch, 6U, 2xSX19
- *945323* AHD8-LV-DSX 8-ch, 6U, 2xSX19M+F
- *945330* AHD12-LV-SX 12-ch, 6U, 4xSX19
- *945301* AHD12-LV-DSX 12-ch, 6U, 3xSX19M+F
- *945335* AHD16-LV-DSX 16-ch, 9U, 4xSX19M+F
- *945315* AHD24-LV-SX 24-ch, 9U, 8xSX19
- *945336* AHD24-LV-DSX 24-ch, 9U, 6xSX19M+F

Output: HARTING 6

- *945313* AHD4-LV-H6 4-ch, 6U, 4xH6
- *945314* AHD6-LV-H6 6-ch, 6U, 6xH6
- *945345* AHD8-LV-H6 8-ch, 6U, 8xH6
- *945344* AHD12-LV-H6 12-ch, 8U, 8xH6
- *945312* AHD24-LV-H6 24-ch, 14U, 24xH6

Output: HARTING 16

Output: HARTING 24

- *945319* AHD4-LV-H24 4-ch, 6U, 1xH24
- *945326* AHD8-LV-H24 8-ch, 6U, 2xH24
- *945332* AHD12-LV-H24 12-ch, 8U, 3xH24
- *945307* AHD16-LV-H24 16-ch, 9U, 4xH24
- *945306* AHD24-LV-H24 24-ch, 10U, 6xH24

Outputs


HARTING 16


Socapex 19


HARTING 6


Screw terminal

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