AHD-WDV
AHD-WDV series
Wireless digital motor controller for direct voltage hoists

The 2nd generation **AHD-WDV Advanced Digital Hoist Controller** was designed to control **up to 24 electrically compatible motors**, either separately or simultaneously. All operation is done via the controls on the front panel or using a wireless hand remote.

The complete system consists of these two devices:

- **BASE unit**
  - Wireless **receiver**
  - Function **key switch** with **OFF/LOCAL/WIRELESS control** modes
  - **Charger** and **storage** for the REMOTE unit
  - **LED indication** for the **GO button**, **wireless signal** presence, and charger status

- **REMOTE unit**
  - Wireless **transmitter**
  - **Linkable** with **up to 24 channels** on hand
  - **Light and solid construction** that **fits easily to hand**
  - **Integrated antenna** inside the body
  - **Battery status indication LED**
  - **Beeper alarm** function
  - Device **status LED**
  - **Metal belt clip**

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

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

The unit will **NOT** function if:

- **one phase is missing**
- **there is under-voltage on the lines**
- **there is over-voltage on the 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-WDV** has an additional **key switch** for the **Group-stop function**. When active, the **MCB trip** of any hoist will cause an **E-**

- **12 or 24-channel hoist controller**
- Controls up to 384 hoists via **AHD link**
- Emergency STOP circuit according to: **IEC60204, SIL3**
- Switches with **UP/STAY/DOWN** function
- GO, REVERSE and **Emergency STOP** button
- Dry contacts on outputs
- Hoist types: **BGV D8, BGV D8+**
- 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
- Compatible with any three-phase chain hoist on the market

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

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Variants

Output: CEE

- *945251* AHD8-WDV-CEE 8-ch, 8U, 8xCEE16/4
- *945228* AHD12-WDV-CEE 12-ch, 8U, 12xCEE16/4
- *945250* AHD24-WDV-CEE 24-ch, 12U, 24xCEE16/4

Output: Socapex 19

- *945248* AHD8-WDV-SX.4CEE 8-ch, 8U, 4C16, 2xSX19 + 4xCEE16/4
- *945249* AHD8-WDV-SX.4CEE 8-ch, 8U, 8C16, 2xSX19 + 4xCEE16/4
- *945202* AHD12-WDV-SX.4CEE 12-ch, 8U, 3xSX19 + 4xCEE16/4
- *945205* AHD12-WDV-SX.CEE 12-ch, 12U, 3xSX19 + 12xCEE16/4
- *945208* AHD24-WDV-SX.4CEE 24-ch, 12U, 6xSX19 + 4xCEE16/4

Output: HARTING 16

- *945252* AHD8-WDV-H16.4CEE 8-ch, 8U, 4C16, 2xH16 + 4xCEE16/4
- *945253* AHD8-WDV-H16.4CEE 8-ch, 8U, 8C16, 2xH16 + 4xCEE16/4
- *945212* AHD12-WDV-H16.CEE 12-ch, 12U, 3xH16 + 12xCEE16/4
- *945255* AHD12-WDV-H16.4CEE 12-ch, 12U, 3xH16 + 4xCEE16/4
- *945204* AHD24-WDV-H16.4CEE 24-ch, 12U, 6xH16 + 4xCEE16/4

Outputs

HARTING 16

Socapex 19

CEE16A/4p

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