



# Advanced Digital Remote for Hoist Controller

## Instruction Manual

Models:

**ADR24-DIGI-AHD-T19**

**ADR36-DIGI-AHD-T19**

**ADR48-DIGI-AHD-T19**

version 3.1 since 4 February 2020

### **ATTENTION!**

This instruction manual contains important information about the installation and the use of the equipment. Please read and follow these instructions carefully.

Always ensure that the power to the equipment is disconnected before opening the equipment or commencing any maintenance work.

ADR-DIGI-AHD-T19\_manual\_M329.doc

# Safety information

## ***IMPORTANT INSTRUCTIONS***

All safety and operating instructions should be read before the equipment is installed or operated.

## ***IMPORTANT SAFETY INFORMATION***

The following general safety precautions have to be observed during all phases of operation, service, and the repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and the intended use of this equipment.

### ***Do not operate in an explosive atmosphere!***

Do not operate this equipment in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

### ***Water, moisture, heat and humidity***

Do not operate this equipment near water or in areas with wet floors or in high humidity atmosphere, where condensation forms on the equipment. It should never be placed near or over a heat register or other source of heated air and it should not be installed or operated without proper ventilation.

# Operation

The ADR-DIGI-AHD-T19 is manufactured from as 12/24/36/48/64/72/96 channels and it suits as directional remote for digital controllers. The ADR-DIGI-AHD-T19 Motors/Hoists connected to the AHDseries controller can be activated individually or simultaneously using the GO button located on the ADR-DIGI-AHD-T19 cable. Unit is also equipped with LCD display and encoder wheel with two buttons to simplify setup and operation of system.

## How to start

- Connect a 5-pin NC5MXX plug to the remote input of the ADR-DIGI-AHD-T19 unit.
- Check if the emergency STOP button on both AHD devices is released. If not, this state will be indicated by the STATUS LED blinking in red color. Check STOP buttons on all connected controllers. Rotate them clockwise to release and RESET units
- Move the lever on ADR-DIGI-AHD-T19 corresponding to each motor to the desired position. According to the position of lever, hoists act as follows:
  - UP - Lever in upper position
  - STAY – Lever in middle position
  - DOWN - Lever in lower position
- Pushing the GO button will activate the motors and move them simultaneously.
- Releasing the GO button will stop the movement of the motors simultaneously.
- When the device is not in use, it is highly recommended to push E-STOP mushroom or TURN off units via key on front panel of AHD controller

## To Move a Single Motor:

- Set the UP/DOWN toggle switch for desired motor to the desired direction. The associated LED will illuminate green for UP and red for DOWN direction.
- Hold the GO button until the motor[s] is/are moved to the desired height, then release.

## To Move Several Motors:

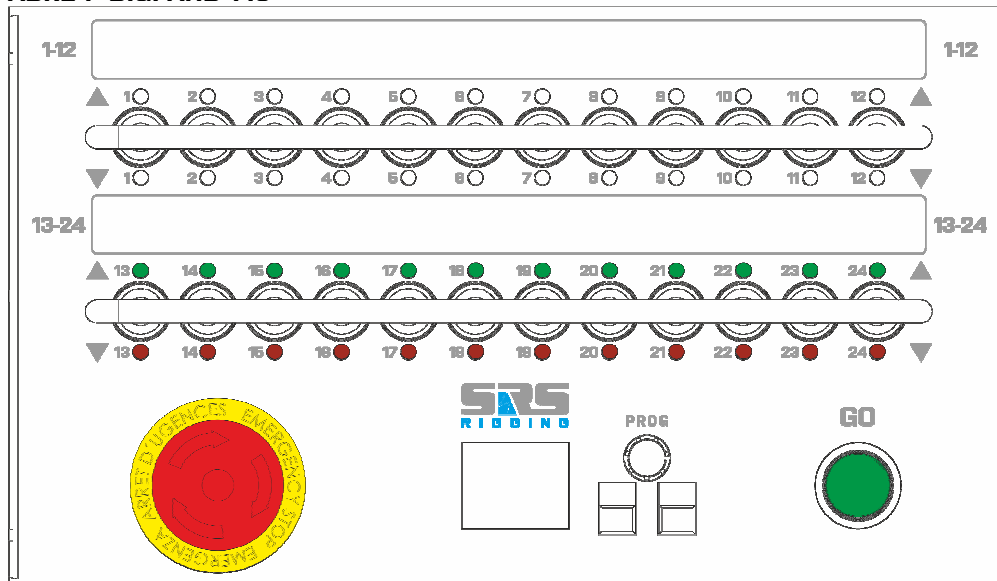
- Set the UP/DOWN toggle switches for each motor to the desired direction. The associated LEDs will illuminate green for UP and red for DOWN direction.
- Hold the GO button until the motors are moved to the desired height, then release.

# ADR-DIGI-AHD-T19 series remote

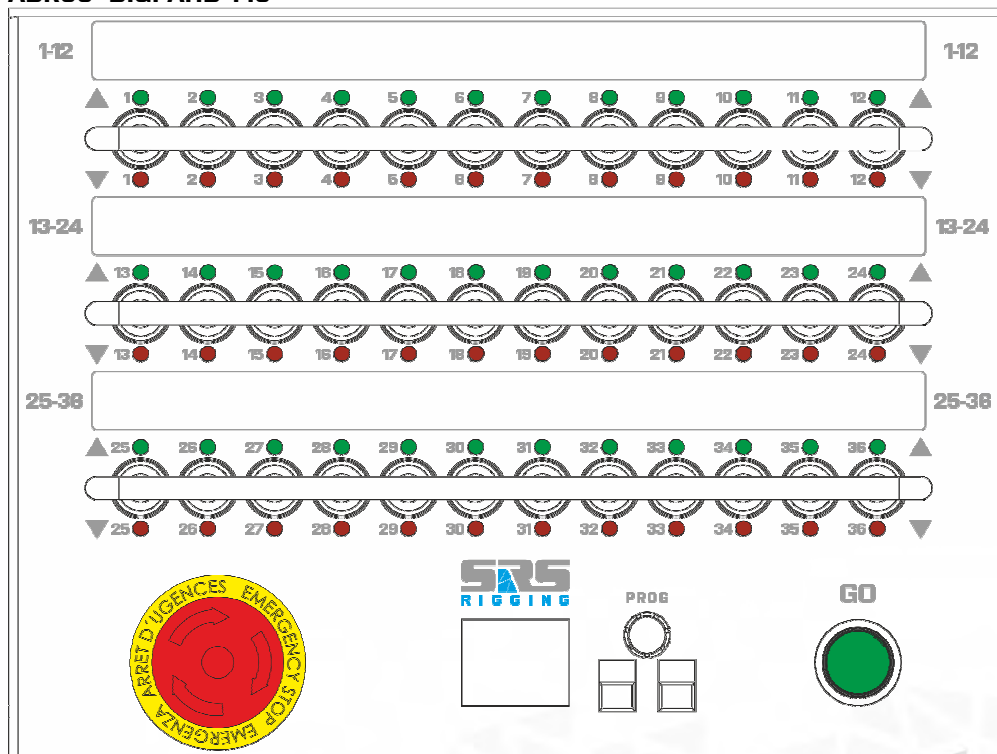
CMC-DIG-AHDseries remote allows controlling of the AHDseries via digital 5-pin cable connector. During standard operation, the full 5core cable must be equipped with Neutrik 5-pin connectors. Maximum cable length is 1000m. The data connection is performed via RS485 communication line.

## ADR12--DIGI-AHD-T19

### ADR24--DIGI-AHD-T19



### ADR36--DIGI-AHD-T19



### ADR48--DIGI-AHD-T19

**E-STOP:**

This switch protects the operation of the base unit from undesired operation and its press turns the Controller to an inactive state. E-STOP is a red color button. Once the E-STOP button has been pressed, system is locked in an inactive position and the button must be rotated clockwise to be released to continue operation.

**GO:**

This green button turns the selected channels of Hoist Control system ON when it is active. Once the GO button has been depressed, the energizing of the hoists is turned off. GO button is blinking when status of system is activated and you're able to move hoist

**DIRECTION SWITCHES:**

They allow changing the direction of movement for each motor/hoist separately or in groups. The LED located close to the switch indicates the direction of movement.

**DIRECTION SWITCH LED**

- Green           UP
- Red             DOWN
- No light        stays in position

# Device menu functions

### ENCODER wheel:

This green button turns the selected channels of Hoist Control system ON when it is active. Once the GO button has been depressed, the energizing of the hoists is turned off. GO button is blinking when status of system is activated and you're able to move hoist

### DISPLAY:

TFT display which shown information about remote and also the linked controllers



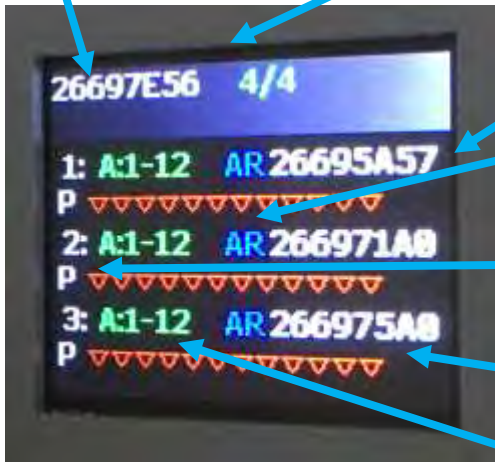
### E-STOP:

This switch protects the operation of the base unit from undesired operation and its press turns the Controller to an inactive state. E-STOP is a red color button. Once the E-STOP button has been pressed, system is locked in an inactive position and the button must be rotated clockwise to be released to continue operation.

**DISPLAY INDICATION**

Remote ID

Number of linked and active controllers without LOCKED link



ID of controller

AR: Automatic RESET enabled

MR: Manual RESET enabled

P: Pause

G; GO

Arrow down – channel will go down

Arrow up – channel will go up

A:1-12 Address of controller

**DESCRIPTION OF CONTROLS:**

ESC BUTTON

ENCODER

OK BUTTON



DIRECION SWITCH

DIRECION LED

## Device operation

After connection to the link the device get discovery of connected controllers. The controller and remote will get paired and remote will become the master of operation. For confirmation of this operation you need to press E-STOP and release E-STOP,



During E-STOP active the display become with RED background.





SAFETY means that controller is waiting for AUTO reset or is unable to reset. When you see this message for long time please check GROUP stop status of controllers.



After successful RESET, device will get reset and ready for operation. Background is Black and GO button is blinking.



**MENU access**

For access to the ADR-REMOTE menu please rotate encoder to the TOP ID and hold center button for cca 3-2-1-0s until display of MENU is shown. During this operation GO command is disabled.



## Main menu window.

- |                    |   |
|--------------------|---|
| 1.LOCKED LINK      | You can create LL /locked link of connected devices to avoid operation with other devices |
| 2.DEF.BYPASS TIME  | you can setup bypass time when AHD is connected to NLP with e-stop                        |
| 3.DISPLAY SETTINGS | Setup of the display – intensity setup, screen saver time setup                           |
| 4.FACTORY RESET    | Will reset factory details of ADR-DIGi-AHD-T19  |
| 5.ABOUT            | Displays informations about ADR – like software version                                   |



**MENU1: LOCKED LINK**

LOCKED LINK please enter menu of LOCKED link. Then all controllers that been discoverable on link will be added to LOCKED LINK. This means that controller setup will work only when all controllers are ONLINE so if you loose one of controller for power down issue, other controllers operation will be blocked as well.



Locked link save operation: Press OK button to save the LOCKED LINK

**CLEAR of LOCKED LINK**, please enter menu again and press OK button to clear locked link. After this operation controller will not watch each other on link



Locked link is shown on main screen with 4/4LL which means that 4 controllers from 4 controllers is online and locked link has been activated:



LOCKED link ERROR: This screen shown that one or more controllers are lost from LINK. Resolve by re-connecting the device again, then press-release E-STOP or remove locked link.



### MENU2: DEF.BYPASS TIME

You can define BPASS TIME as 30/60/180s, confirm via OK button:



### MENU3: DISPLAY MENU

You can setup backlight setup and time before screen saver will occur. The setup will protect display as TFT technology is sensible for long time operation.



#### MENU4: FACTORY RESET

You can reset ADR controller to factory default via this menu



#### MENU5: ABOUT MENU

ABOUT information is displayed



**CONTROLLER EDIT menu:** Use encoder to scroll down to the desired controller. Hold middle ENCODER/PROG button for 3s and you will enter menu of selected controller.



**CONTROLLER MENU:**

- 1. **IDENTIFY** = will send identify command to controller to easy visual check of what kind of controller you’re trying to setup
- 2. **ADDRESS** = is start address of operation. If you want to control 24 channels consisting of 2x12 way unit you need to setup the 1st controller to address=1 and 2nd to address=2. If you have 3x 8way you need to use addresses 1, 9, 17
- 3. **RESET** = this says if controller has AUTOMATIC or MANUAL RESET. When there is automatic reset enabled the controller will check itself and reset after few seconds. NO press of RESET button is needed. When RESET = MANU means that each e-stop need to be resolved by pressing RESET button of controller front panel.



ADDRESS SETUP screen:



MANUAL/AUTOMATIC RESET SETUP screen:



## Remote connector

Neutrik NC5-FDL

Pin	Function	note
1	<b>Data CMN</b>	<i>Data Common</i>
2	<b>Data -</b>	<i>Data Minus</i>
3	<b>Data+</b>	<i>Data Plus</i>
4	<b>DC1</b>	<i>Power supply for CMC DC12-36V</i>
5	<b>DC2</b>	<i>Power supply for CMC DC12-36V</i>

## Housing + Dimensions

2mm+ 3mm lightweight aluminum box

## Warranty

ADR-DIGI-AHD-T19 series hoist controller is covered by a 2-year manufacturer's warranty. For extended warranty conditions, please contact the manufacturer at [sales@srs-group.com](mailto:sales@srs-group.com).

Warranty covers the original factory installed components of the controller and their correct functioning.

Warranty voids if any part or replacement components is installed or modified without authorization from the manufacturer and/or the internal circuit is tampered or modified and/or the controller is operated outside normal use conditions and if the electrical power supply is not conform or there is connection error or mechanical damage of controller, including overload and improper use.

We, as a manufacturer, always help you to repair your unit.



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