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	INSTALLATION & USERS MANUAL	Rev. 0	CONSDIG-DMIE00 Date 21/10/04



# *Console* *Digit*

Remote LCD Annunciator

Installation and user manual

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# 1 General safety rules

## 1.1 Safety of individuals

The general safety instructions listed below must be scrupulously followed.

### Installation, commissioning and maintenance operations

Only trained individuals are allowed to work on the installation, troubleshooting and. in general. for any other type of intervention on the system or remote panel.

This personnel must possess the specific documentation, in particular this manual. Untrained operators must not work on the panel for any reason.

## 1.2 Safety of the product

- The panel is designed for indoor use, do not install the device outdoors.
- Do not position the panel near liquids or in excessively humid /damp areas.
- Do not let liquid or other foreign substances get inside the device.
- Do not expose the panel to direct sunlight or place it near sources of heat.

# 2 General information

Console/Digit is a remote LCDs Annunciator (supplementary) suitable for repeating and displaying active events (Alarm, Trouble, supervisory, etc.) and operating command to the Digit Italia system C.I.E. It is housed in a case specifically designed for wall mounting or desk positioning.

Up to 32 Console/Digit can be connected to a Digit Italia C.I.E. at maximum distance of 1200 m. The connections are made by means of RS485 four wires opto-isolated interfaces: cable should be shielded 4x0,75 mm<sup>2</sup> (min.) type.

On the back-lit display (8 rows 40 chars each) all current events (Alarms, Trouble, Supervisory, etc.) and date and time are shown.

A series of LEDs indicates Power Supply presence, Delay of Alarm, device(s) exclusion, Alarms and Troubles.

A membrane keyboard is allowable as operator interface. From the keyboard it's possible to perform the operations here below exactly as operations should be done from keyboard on the C.I.E. :

- ACKNOWLEDGE of events
- Increasing the time delay for an Alarm (if programmed into the C.I.E.)
- Sirens and alarm signaling device silencing
- Carry out general reset
- Lamp test

Alarm, Trouble and Disablement conditions are notified by the internal buzzer.

Console/Digit may be powered directly by the C.I.E. or by external power supply units.





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### 3 Indicators, keys and relays

#### 3.1 Front indicators

<u>Indicator</u>	<u>Description</u>
Alarm	Red led indicator; when it is on an alarm condition is present on the control panel.
Fault	Yellow led indicator; when it is on a fault condition is present on the control panel.
Excluded	Yellow led indicator; when it is on an exclusion is present on the control panel.
Excluded siren	Yellow led indicator; when it is on it indicates that the siren is excluded on the control panel.
Increase delay	Yellow led indicator; when it is on it indicates that the alarm delay has been increased locally.
ON	Green led indicator; when it is on it indicates that the power is on.

#### 3.2 Keys

<u>Key</u>	<u>Description</u>
 	Selection of the event type shown on the display.
 	Rotation of messages shown on the display.
<b>RESET</b>	Control panel reset key (general reset). Enabled via a mechanical key.
<b>TEST LAMP</b>	Key to test the lit indicators. It lights the indicators for 5 seconds.
<b>REARM SIREN</b>	Key for resetting the sirens if they were previously shut off when an alarm condition was present. Enabled via a mechanical key.
<b>SILENCE SIREN</b>	Key for silencing sirens when an alarm condition is present. Enabled via a mechanical key.

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#### **INCREASE DELAY**

Key for increasing alarm delay when a timed alarm condition is present. Enabled via a mechanical key.

#### **ACKNOWLEDGE**

Key for acquiring an event. Acquisition of an event requires silencing the panel and control panel buzzers.



Panel access is protected by a lock.

### 3.3 Relays

Console/Digital has a relay which is directly piloted by the control panel. When the control panel goes into alarm condition 2, the relay is activated, instead when the control panel returns to normal operating conditions the relay is released.

## 4 Operation

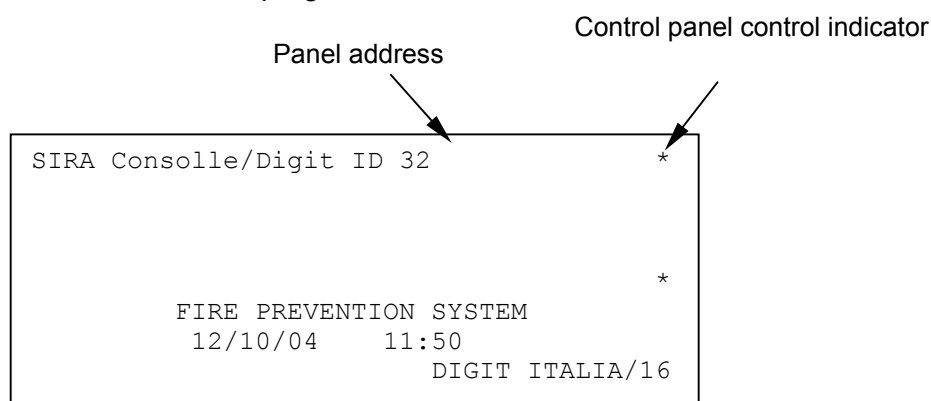
Each Console/Digit can be used in two different ways depending on it is programmed or not into Digit Italia C.I.E. :

- Monitor (non interactive) way
- Monitor and control (interactive) way

To work in the first way only need to power the unit and properly connect the RS485 wiring cable. The Digit Italia C.I.E. automatically transmit the display messages to all the connected units without any control of circuits integrity. No interaction with the operator is active.

To work in the second way each Console/Digit need to be programmed onto the Digit Italia C.I.E. (refer to Digit Italia programming manual). Interaction with the operator is enabled. Connection bus is supervised for integrity.

When the Console/Digit is operated, the character “\*” and the character “-” switch each other every second, on the right angle of the display (see Fig. below). If the character no dot switch, the Annunciator hasn’t been programmed on the C.I.E.



**Fig. 4-1**

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In normal (quiescent) conditions the display will show the same information as the C.I.E. display; on the first line are shown the Console reference.

When in Monitor & Control operating condition, a trouble message is display and the buzzer is activated in the case of data bus interruption or communication failure between the C.I.E. and the Console/Digit (see Fig. 4-2)

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SIRA Console/Digit ID 32 *

*** ANOMALIA *** MANCANZA COMUNICAZIONE

**** FAULT ***** COMMUNICATION FAILURE

**** FALHA ***** AUSENCIA COMUNICACAO

```

**Fig. 4-2 Fault warning messages**

During C.I.E. programming, a message is displayed as shown in Fig. 4-3. In this case, the C.I.E. does not process the interaction with the Console/Digit

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SIRA Console/Digit ID 32 *





REMOTE PROGRAMMING ENABLED

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**Fig. 4-3 C.I.E. programming mode**

## 4.1 *Adjusting the display contrast*

The display contrast can be adjusted as follows:

- With the panel turned on, press the **TEST LAMP** and  keys at the same time.
- The contrast adjustment bar and ambient temperature will appear on the display.
- To increase the contrast, press the **TEST LAMP** and  keys at the same time.
- To decrease the contrast, press the **TEST LAMP** and  keys at the same time.
- To exit the adjustment menu, press the **TEST LAMP** and  keys at the same time.



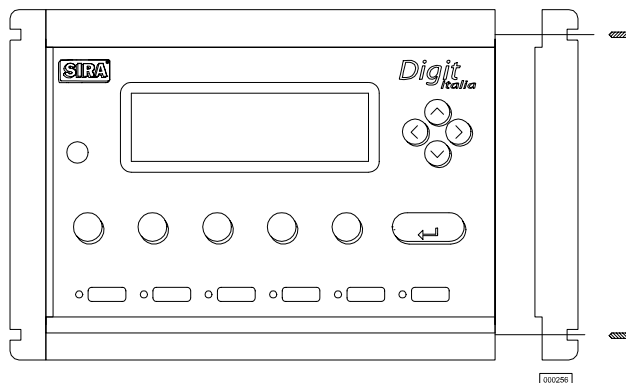
The contrast adjustment is eliminated when the panel is turned off.



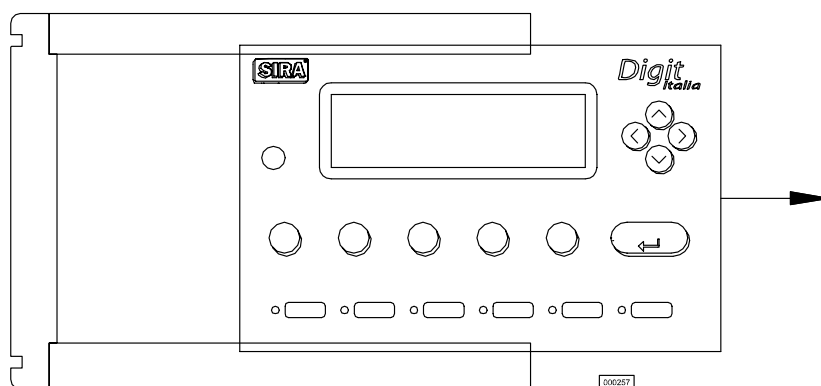
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## 5 Installation

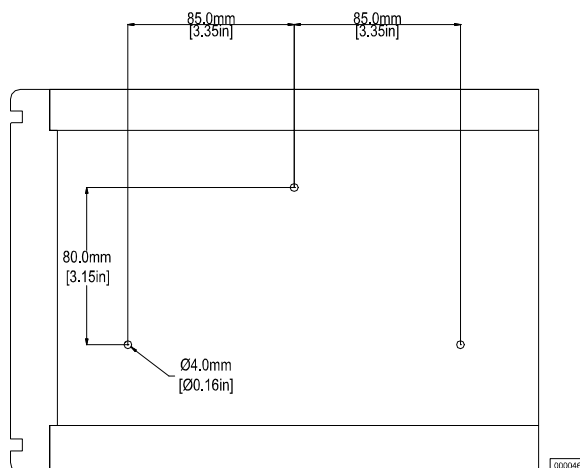
Console/Digit has to be placed in a dry room; it can be mounted on a wall or on desk. To open the unit remove the 4 screw on the right side, remove the locking profile and pull out the front board. The unit is provided with two grommet protected holes for cable crossing and three threaded holes for wall mounting.



**Fig. 5-1 Remove screws and profile**



**Fig. 5-2 – Opening the housing**



**Fig. 5-3 Drilling template for mounting**

## 5.1 Terminal board description

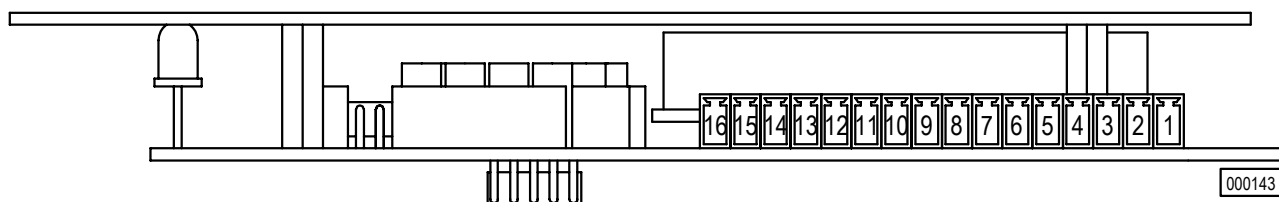


Fig. 5-4 - Terminal board

Terminal	Function	Description
1	GND	Ground Earth
2	0 V	Negative Power supply input
3	0 V	Negative Power supply output
4	27 V	Positive Power supply input
5	27 V	Positive Power supply output
6	RX +	RS485 Rx positive input
7	RX -	RS485 Rx negative input
8	TX +	RS485 Tx positive input
9	TX -	RS485 Tx negative input
10	RX +	RS485 Rx positive output
11	RX -	RS485 Rx negative output
12	TX +	RS485 Tx positive output
13	TX -	RS485 Tx negative output
14	C	Form C Relay common contact
15	NO	Form C Relay normally Open contact
16	NC	Form C Relay normally Closed contact

## 5.2 Connections

The maximum cable length between the C.I.E. RS485 interface and Console/Digit must not exceed 1200m. A 4x0.75 mm<sup>2</sup> shielded cable for data link and a 2x1mm<sup>2</sup> cable for the power supply should be used.

### 5.2.1 Point-to-point connection

To connect only one Console/Digit, the RS485 bus End of Line resistor must be connected to the terminals Rx+ (10) and Rx- (11). See Fig. 5-5.

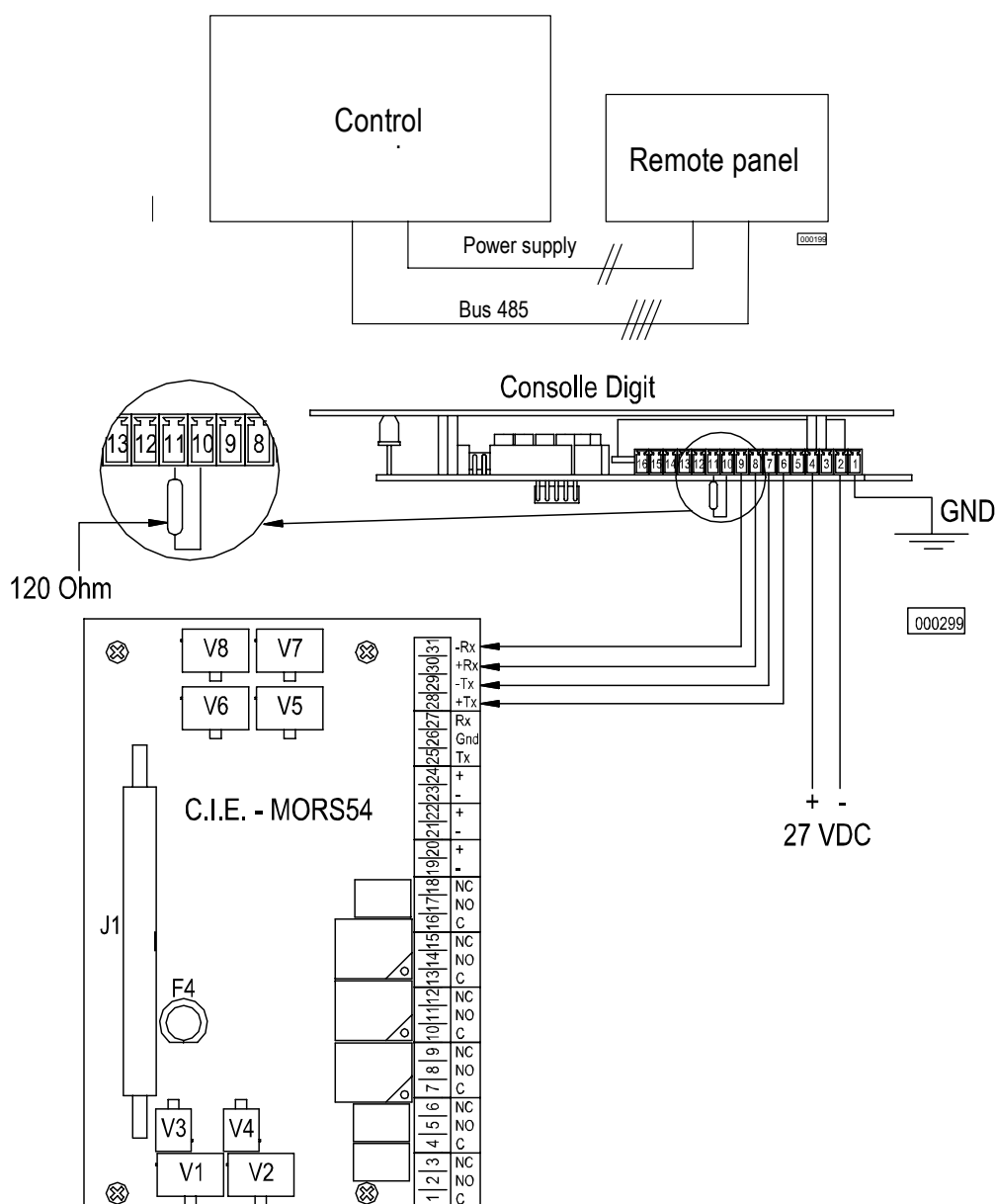


Fig. 5-5 –Point-to-point connection

## 5.2.2 Multi-point connection

A multipoint connection can be carried out as shown in Fig. 5-6 and in Fig. 5-7.

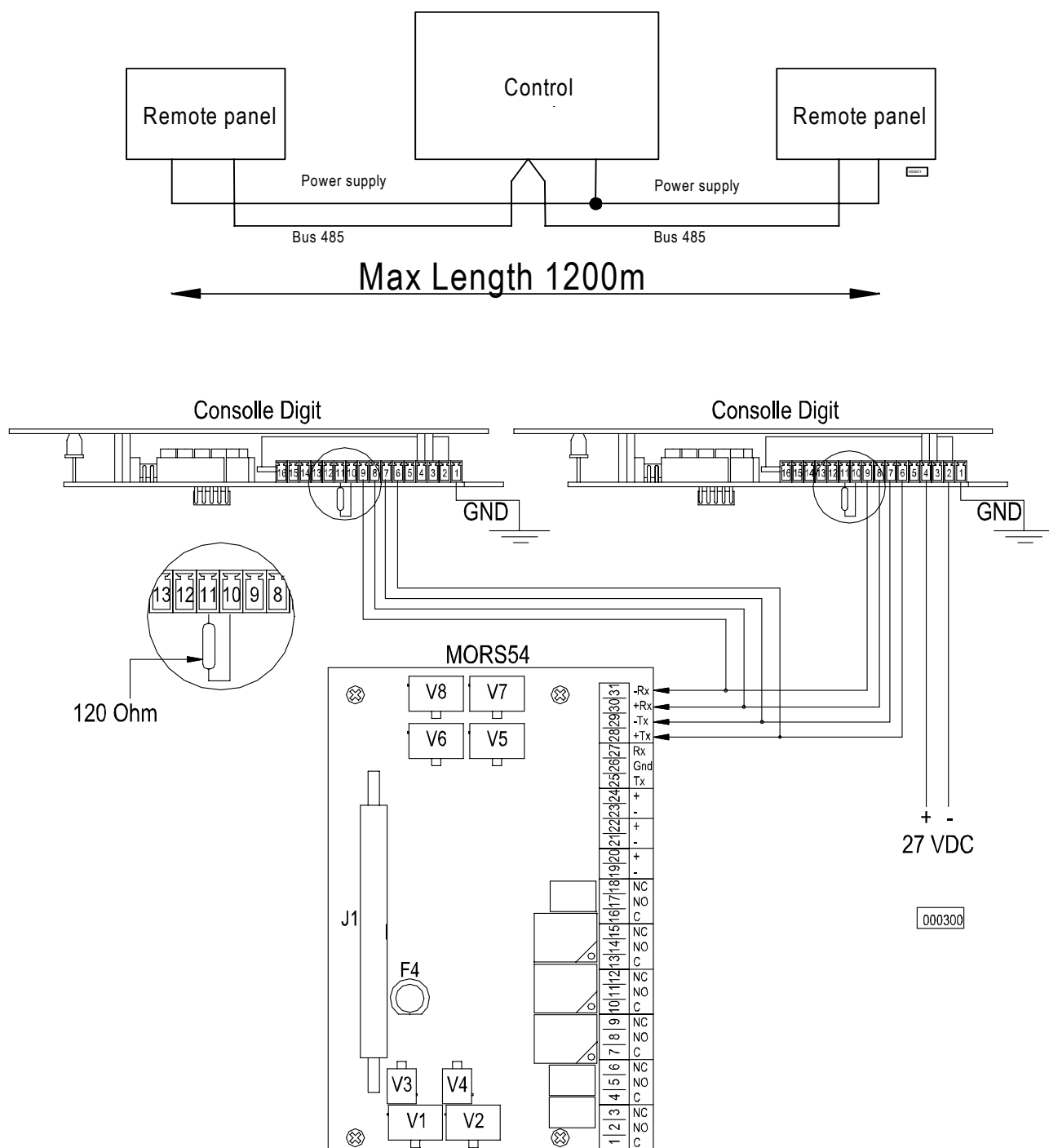


Fig. 5-6 – Multi-point connection; remote panels at the end of the connection

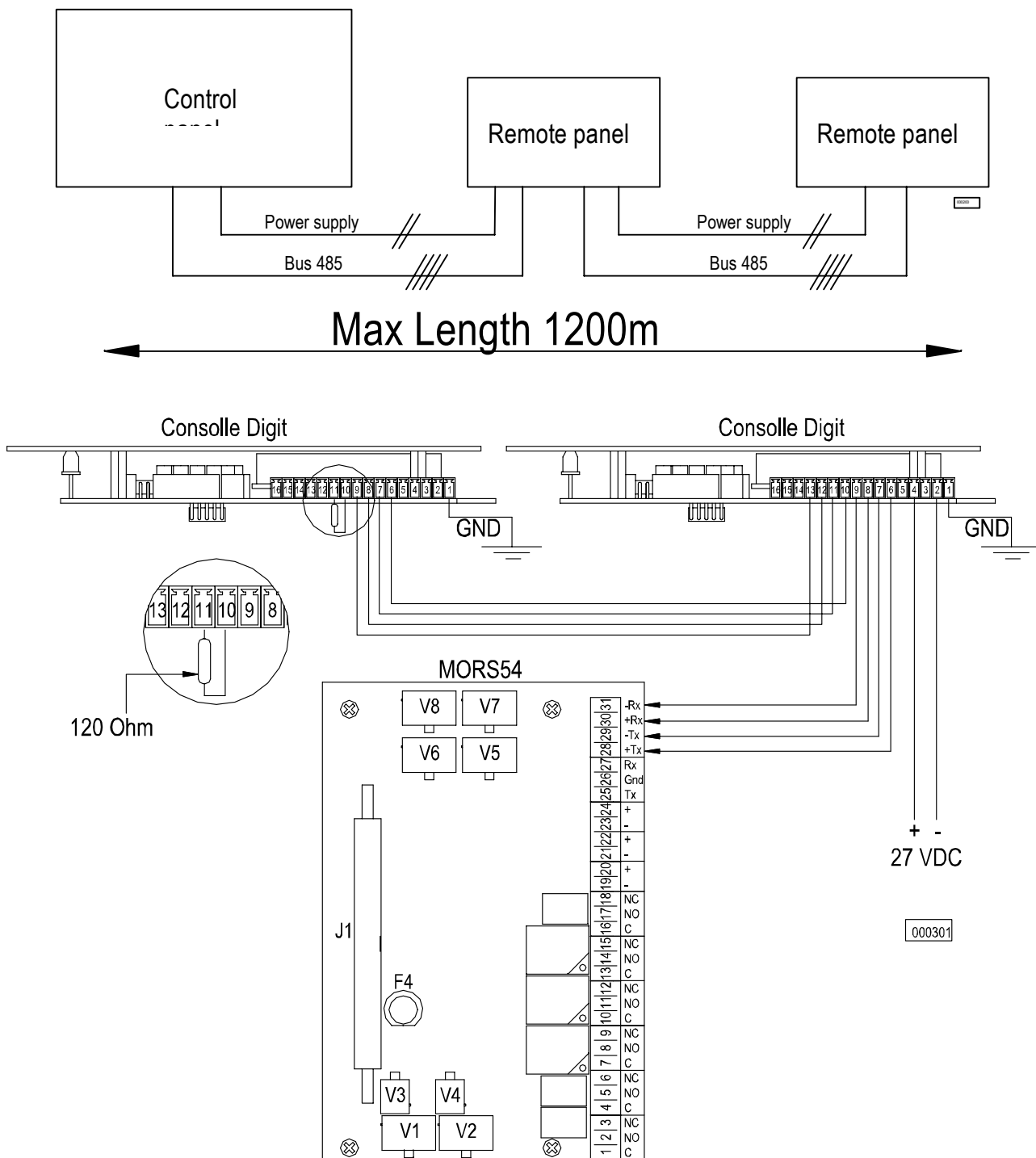
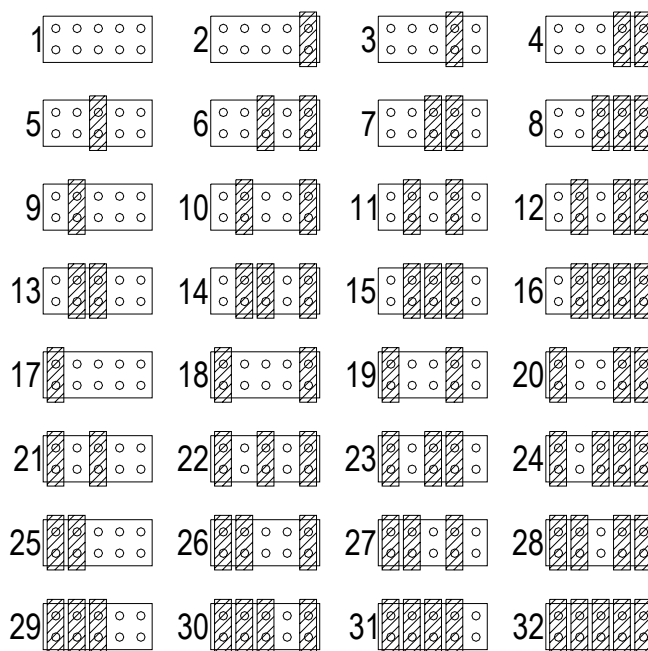
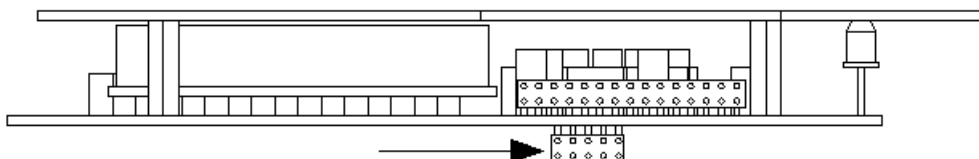


Fig. 5-7 – Multi-point connection; control panel at one end of the connection

## 6 Addressing

On the left side of the unit, 5 jumpers are provided to set the address.

To set the address, first turn power off, remove the right side cover and then set the jumpers.



**Fig. 6-1 – Selection of the address via the jumpers**

