



Art. 69MC - 69MD

ELVOX TWO-WIRE AUDIO / VIDEO INTERFACES

INSTALLATION AND OPERATION MANUAL



Product is according to EC Directive 2004/108/CE, 2006/95/CE and following norms.

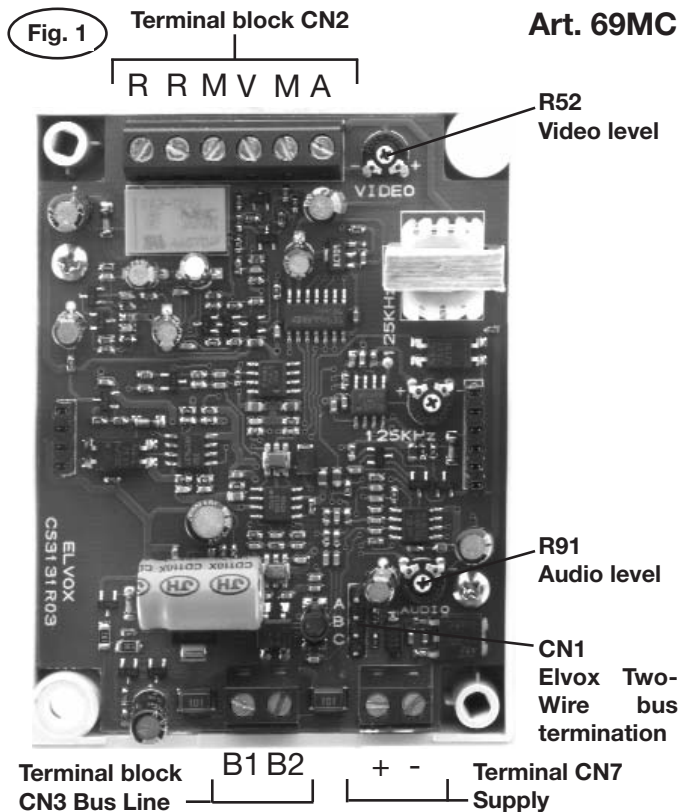


1. GENERAL INFORMATION

Articles 69MC and 69MD are interfaces on a 4 module DIN enclosure that enable converting (extracting) the audio and video signal from an ELVOX TWO-WIRE bus line. Art. 69MC always extracts the audio and video signal, when available in the two-wire bus, regardless of the flat called. Article 69MD extracts the audio and video signal when a valid signal is available in the two-wire bus of one or more flats programmed in article 69MD. For the programming it is necessary to use art. 950C or PC. By default art. 69MD has all 200 flats active for extracting the audio/video signal Every time art. 69MC and 69MD are activated to extract the video signal they close a normally open contact.

The power is supplied with art. 6582 to keep the circuit isolated. The jumper CN1 with 3 positions A,B,C is the terminator of the bus for the video signal and is used in the same way as all the other ELVOX TWO-WIRE products: in the case of a feedthrough bus keep CN1 on A, otherwise terminate on B or C according to the best position for the video output. R91 regulates the output audio level. It is already set in the factory to supply 0.5Vpp and must not be changed unless absolutely necessary. R52 regulates the output video level. It is already set in the factory to supply 1 Vpp and must not be changed unless absolutely necessary.

The terminal block CN2 has the following signals and controls:

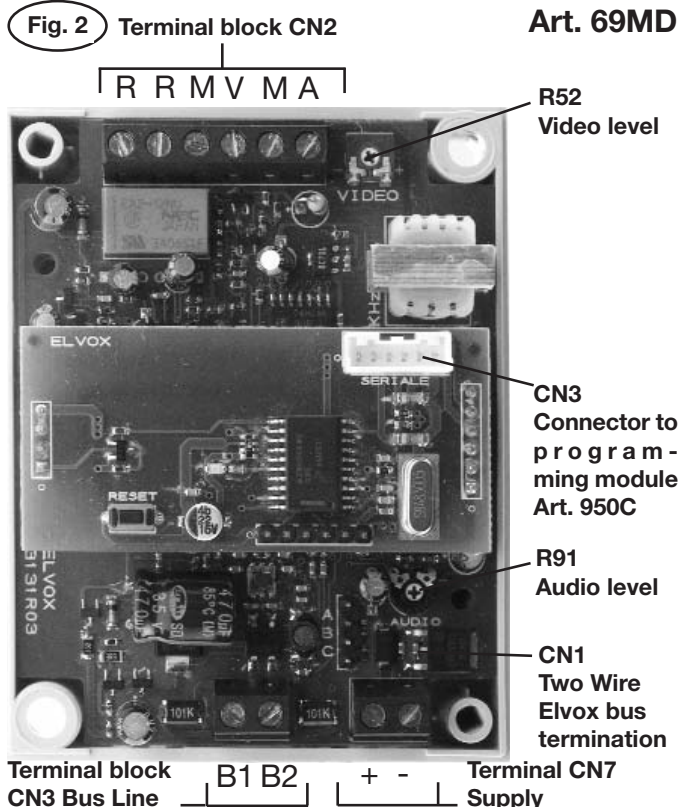


TERMINAL BLOCK CN2	
MARK	DESCRIPTION
R	Contact of a normally open relay . It closes when the video signal is good. Peak voltage and current at the contacts 24V 0.5A
R	
M	Video earth
V	Video output
M	Audio earth
A	Audio output

TERMINAL BLOCK CN7	
MARK	DESCRIPTION
+	Power supply 20V
-	Ground power supply

2. SOFTWARE CONFIGURATIONS (ONLY WITH ART. 69MD)

The configurations can be made only via the programming module Art. 950C connected to the serial socket inside art. 69MD (see Fig. 2). Alternatively it is possible to use the interfaces Art. 6921 or 6921/U and the PC software SaveProg (Art.69CD). The configurable parameters are:



PARAMETER	DEFAULT	NEXT ITEM	PREVIOUS ITEM	UNDER ITEM
Language	Italian (local language)	⏴	⏵	
Video activation delay	1 s	⏴	⏵	
Video/Audio activation	All on	⏴	204 x ⏴ or R ⏵	⏵

The programmer keypad layout is as follows:



The button has no function because the programmer is powered via the bus. For the same reason the auto-shutdown function is not available. The programmer keys and enable selection of the following item from the main menu:

```
Select Function:
Terminal Mode
```

During the phase of waiting for the response from the interface, the display shows:

```
Entering
Terminal Mode
```

After a few seconds the programmer display will show the type and release of the software for the interface:

```
Program. 69MD OK
GG/MI/AA U 0.00
```

When it disappears the first item on the programming menu will appear. The programming procedure ends either due to timeout

or by pressing the button while you are in any of the external menus listed below.

2.1. MESSAGE LANGUAGE

```
Message Language
English
```

The programs can be run in Italian (local language, default) or in English. Other languages will be available for the respective markets. To change language, press for Italian or for English.

```
Message Language
English
```

To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

```
Fatto!
Italian
```

The display now changes to:

```
Message Language
Italian
```

Use the key to move to the previous item in the programming menu.

2.2. VIDEO ACTIVATION DELAY

Pressing the button takes you to the next item where you can select the time elapsing between the incoming message that indicates there is a video signal in the bus and the demodulated output that is supplied:

```
Video Delay
10 x 0.1 s
```

This is because when the video activation command passes through the bus, the video signal might not be present and stabilized in amplitude. In addition, also the internal circuit needs a certain time for stabilizing. Supplying such a video signal to certain kinds of monitor can make them unstable in the sense that from that moment until they are switched off they will no longer show a correct video signal. The time is regulated from 0 to 5 seconds in steps of 0.1 s. To change the time, simply key in the new value. In this case, press and for 2 seconds:

```
Video Delay Video Delay
2 x 0.1 s 20 x 0.1 s
```

To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

```
Done!
20 x 0.1 s
```

Use the key to move to the previous item in the programming menu.

2.3. AUDIO / VIDEO ACTIVATION

Pressing the button takes you to the next item where you can change, flat by flat, whether to supply only the video output or both. By default it is all on:

```
A/V Activat. 1
Audio=Y Video=Y
```

To select the device to modify, use keys and . From position 1, press to move to the next item in the programming menu. Alternatively, enter the device number required directly:

```
Enter device ID
45
```

Now press :

```
A/V Activat. 45
Audio=Y Video=Y
```

In the event of discrepancies, the first line of the display shows the error:

```
Out of Range
888
```

Use the key to skip all intermediate phases and go to the previous item in the programming menu. To change the activation setting, press:

```
Activation 45
Audio=Y Video=Y
```

Now the buttons , and and they have this meaning:

PUSH-BUTTON	ACTIVATION	EXAMPLE
	No activation	Activation 45 Audio=N Video=N
	Only video	Activation 45 Audio=N Video=Y
	Audio and video	A/V Activat. 45 Audio=Y Video=Y

As can be seen, there is no activation of only the audio channel. In practice, it is permissible to record both audio and video or only video so as to see what happens but not hear. To cancel

press . To confirm, press . Otherwise, acceptance of the command, as in all cases, is shown on the first line of the display:

```
Done!
Audio=N Video=Y
```

To cancel all programming (put programming on YES) starting from where the current value is shown, press the button :

```
i=Default All
```

On request for confirmation, press :

```
i=Default All
YES
```

and then .

Press or to cancel the procedure. If numbering reset is selected, the following is displayed:

```
Please wait...
```

And lastly:

```
Done!
Please wait...
```

If, on the other hand, you want to disable the audio/video signal for all:

```
A/V Activat. 1
Audio=Y Video=Y
```

Press the button

```
i=Default All
```

confirmation is requested pressing

```
i=Default All
None
```

press and confirm with , what appears is:

```
Please wait...
```

and at the end:

```
Done!
Please wait...
```

Legenda for wiring diagram

*

BUS TERMINATION FOR ELVOX TWO-WIRE INSTALLATIONS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with "BUS termination connector", which is identified by the screen-printed letters "ABC" and marked on the wiring diagrams with *. For correct adaptation of the line, a jumper must be inserted according to the following rule: Keep the jumper in position "A" if the BUS enters and exists from the device; Move the jumper to position "B" (if Elvox cable) or to position "C" (if CAT5 twisted pair cable) if the BUS line terminates in the device itself.

"A" = NO TERMINATION

"B" = TERMINATION 100 ohm

"C" = TERMINATION 50 ohm

INSTALLATIONS WITH PASSIVE DISTRIBUTOR 692D (DIN rail version)

ALWAYS use output 1 on distributor type 692D (the only one that has no termination jumper).

For termination of type 692D: If outputs "OUT", "2", "3" or "4" are not used, KEEP the jumper on the "TOUT", "T2", "T3" or "T4" connector. The default "TOUT" connector is in the "100" position (Elvox cable), position it to "50" only if using a CAT5 twisted pair cable.

INSTALLATIONS WITH PASSIVE DISTRIBUTOR 692D (non-DIN rail version)

For termination of type 692D (non-DIN rail version): If the "OUT" output is not used, KEEP the jumper on connector "A". If the "OUT" output is used, REMOVE the jumper from connector "A".

INSTALLATIONS WITH ACTIVE DISTRIBUTOR 692D/2.

The termination jumper must be positioned on "B" (for Elvox cable) or on "C" (for CAT5 twisted pair cable) IF AND ONLY IF the BUS terminates at the device itself. It must be left on "A" if effecting entry-exit using terminals 1-2 on 692D/2.

Conductor section

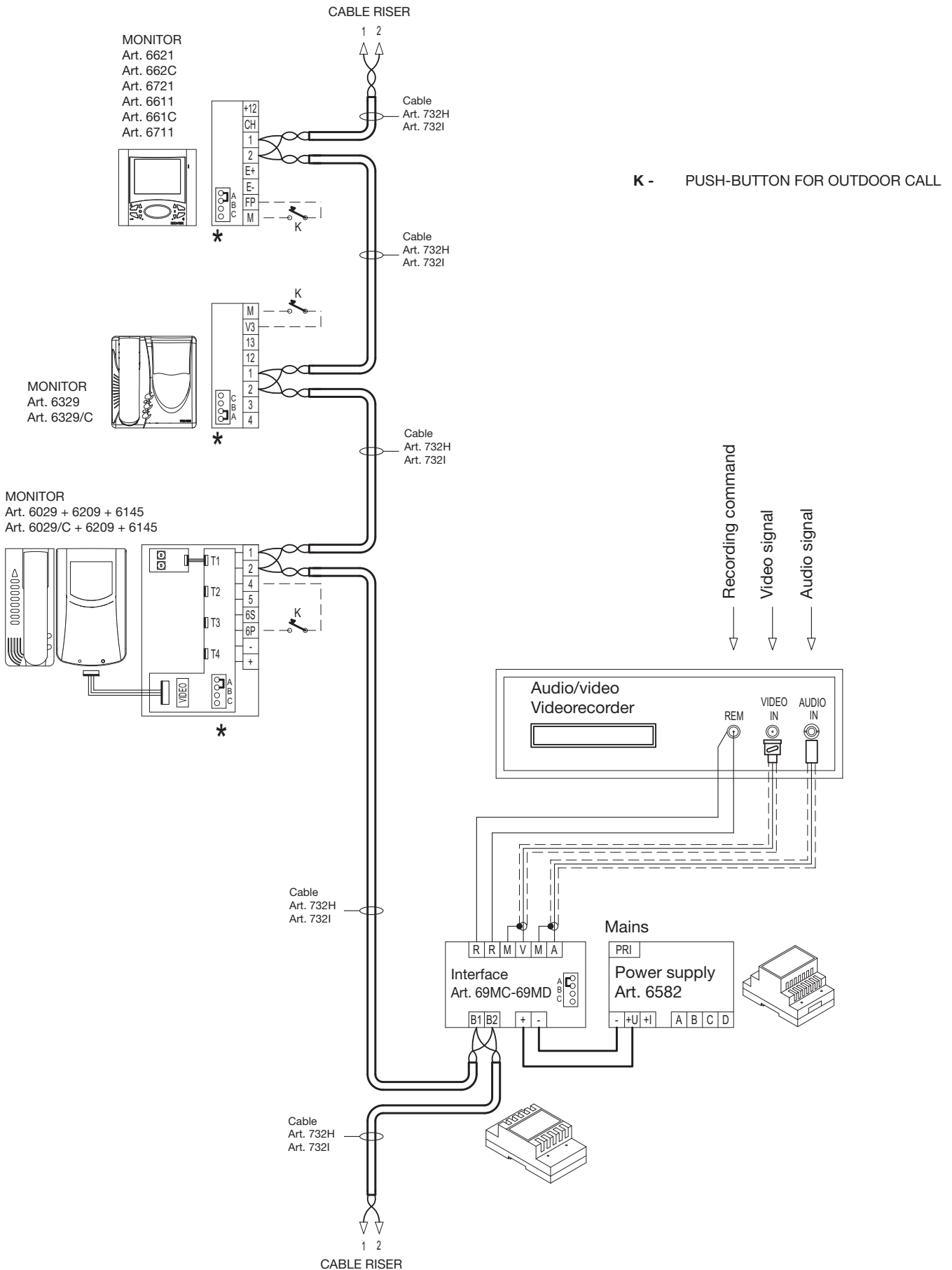
Terminals	Ø up to 10m	Ø up to 50m	Ø up to 100m	Ø up to 150m
1, 2, B1, B2 (*)	0,5 mm ²	0,5 mm ²	0,75 mm ²	1 mm ²
Cable	Type 732H, Type 732I	Type 732H, Type 732I	Type 732H, Type 732I	Type 732H, Type 732I
Electric lock	1,5 mm ²	-	-	-
Other: -, +U, +I, -L (#)	1 mm ²	1 mm ²	1,5 mm ²	2,5 mm ²
Video	Coaxial cable 75 Ohm type RG59 o RG11			

* On video colour installations use cable type 732H for a maximum distance of 75 metres.

Additional power supplies (type 6923, 6582, 6982) must be installed as close as possible to the device to which they are to be connected.



CONNECTION FOR DEVICE Art. 69MC, Art. 69MD FOR EXTRACTION OF VIDEO AND/OR AUDIO SIGNAL FROM ELVOX TWO-WIRE BUS (REF. SI561)



K - PUSH-BUTTON FOR OUTDOOR CALL

Recording command
Video signal
Audio signal

SAFETY INSTRUCTIONS FOR INSTALLERS

- Carefully read the instructions on this leaflet: they give important information on the safety, use and maintenance of the installation.
- After removing the packing, check the integrity of the set. Packing components (plastic bags, expanded polystyrene etc.) are dangerous for children. Installation must be carried out according to national safety regulations.
- It is convenient to fit close to the supply voltage source a proper bipolar type switch with 3 mm separation (minimum) between contacts.
- Before connecting the set, ensure that the data on the label correspond to those of the mains.
- Use this set only for the purposes designed, i.e. for electric door-opener systems. Any other use may be dangerous. The manufacturer is not responsible for damage caused by improper, erroneous or irrational use.
- Before cleaning or maintenance, disconnect the set.
- In case of failure or faulty operation, disconnect the set and do not open it.
- For repairs apply only to the technical assistance centre authorized by the manufacturer.
- Safety may be compromised if these instructions are disregarded.
- Do not obstruct opening of ventilation or heat exit slots and do not expose the set to dripping or sprinkling of water.
- Installers must ensure that manuals with the above instructions are left on connected units after installation, for users' information.
- All items must only be used for the purposes designed.
- The omnipolar switch must be easily accessed.
- **WARNING:** to avoid the possibility of hurting yourself, this unit must be fixed to the wall according to the installation instructions.
- This leaflet must always be enclosed with the equipment.

Directive 2002/96/EC (WEEE)



The crossed-out wheellie bin symbol marked on the product indicates that at the end of its useful life, the product must be handled separately from household refuse and must therefore be assigned to a differentiated collection centre for electrical and electronic equipment or returned to the dealer upon purchase of a new, equivalent item of equipment.

The user is responsible for assigning the equipment, at the end of its life, to the appropriate collection facilities.

Suitable differentiated collection, for the purpose of subsequent recycling of decommissioned equipment and environmentally compatible treatment and disposal, helps prevent potential negative effects on health and the environment and promotes the recycling of the materials of which the product is made. For further details regarding the collection systems available, contact your local waste disposal service or the shop from which the equipment was purchased.

Risks connected to substances considered as dangerous (WEEE).

According to the WEEE Directive, substances since long usually used on electric and electronic appliances are considered dangerous for people and the environment. The adequate differentiated collection for the subsequent dispatch of the appliance for the recycling, treatment and dismantling (compatible with the environment) help to avoid possible negative effects on the environment and health and promote the recycling of material with which the product is compound.

NOTE:





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