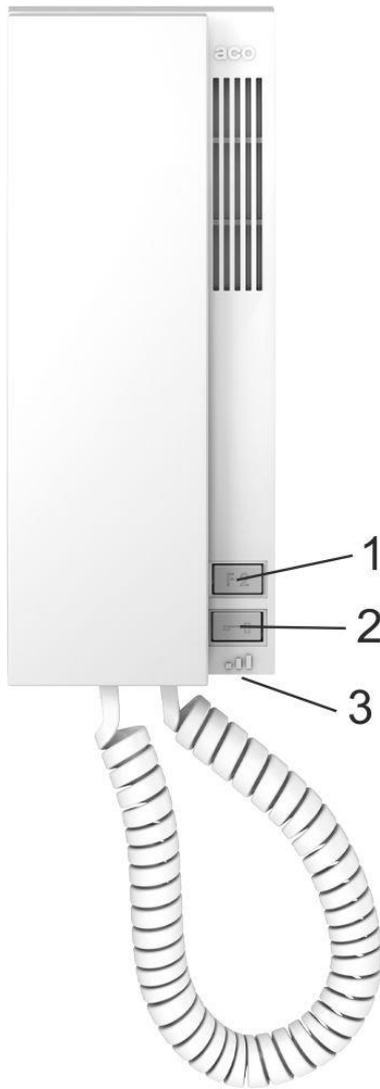




INSTALLATION AND OPERATING MANUAL FOR DIGITAL HANDSET INS-UP720MR





Features:

- Works together with digital systems CDNP and Inspiro
- Works as a outside door bell
- Ringing volume control
- Magnetic handset hang-up mechanism
- Hold-function allows hanging up the receiver and not disconnecting
- Additional function button to operate external devices
- Many handsets can be connected to the same address
- Full support of privacy during conversation
- Individual conversation volume control (integrated amplifier)

1 – Additional function button; 2 – Basic door opening button; 3 – Ringing volume control switch

Mounting the handset

After opening the enclosure, mount the basis on the wall using expansion bolts, the wire is lead out through hole in the basis. The handset address (usually apartment number) is programmed using jumpers CODE / ADDRESS, the number beside the jumpers should give the apartment number after adding up.

Operating the handset

In order to take the call, pick up the receiver while it is ringing. During the conversation it is possible to open the door at the panel that is calling with button No. 2 (optionally – different devices can be controlled with function button No. 1) Conversation ends automatically after hanging-up.

In standby mode it is possible to set ringing volume, doorbell volume (switch 3). During the conversation the doorbell can be heard in the receiver.

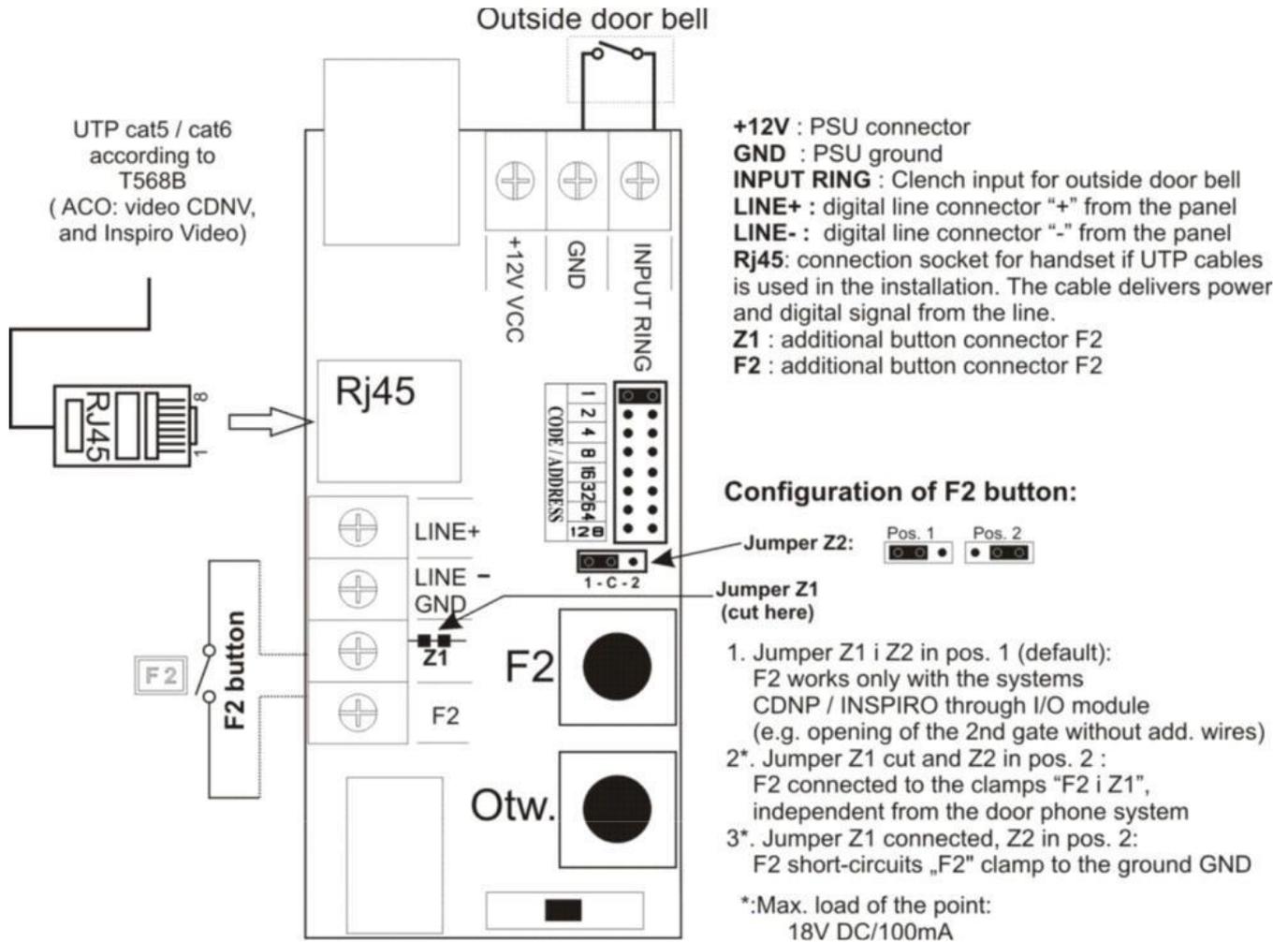
It is possible to open the door or additional gate without established connection or picking-up the receiver through pushing button 2 (this function has to be enabled in the panel) – confirmation of opening the door is a single tone. If the line is busy and opening the door is not possible, the triple tone sounds.

If there are more handsets connected to the same physical address and if one of them is picked up while all are ringing, the others automatically disconnect (the conversation can not be heard from other handsets). In case of mixed installation with handsets / video monitors and need of connecting more monitors to the same address, you have to use INS-MPR monitors from ACO range.

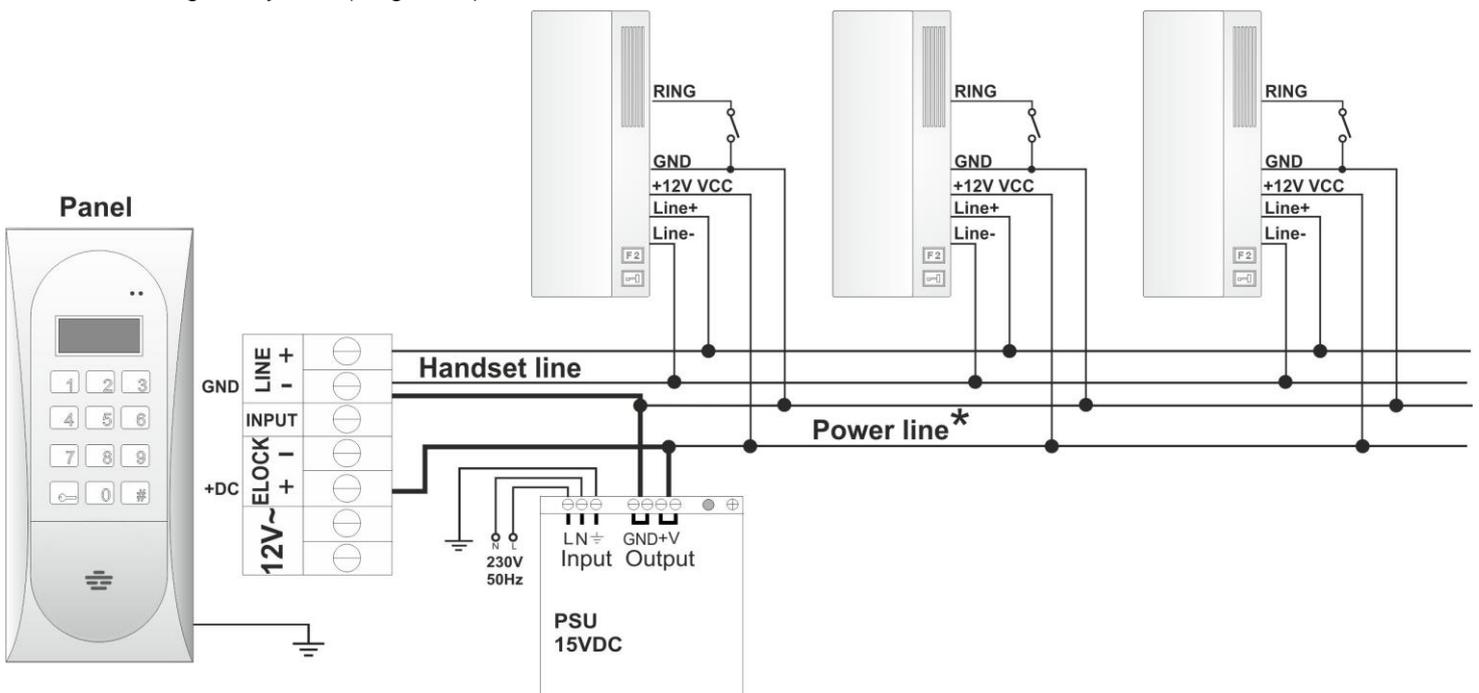
NOTE! Do not place the handset on your ear when it calls because the ringing tone may damage your hearing.

Connection diagram

In case of higher amount of handsets you need to consider power consumption in order to buy appropriate power supply (in standby mode and while many ring at the same time – see „Technical data”)

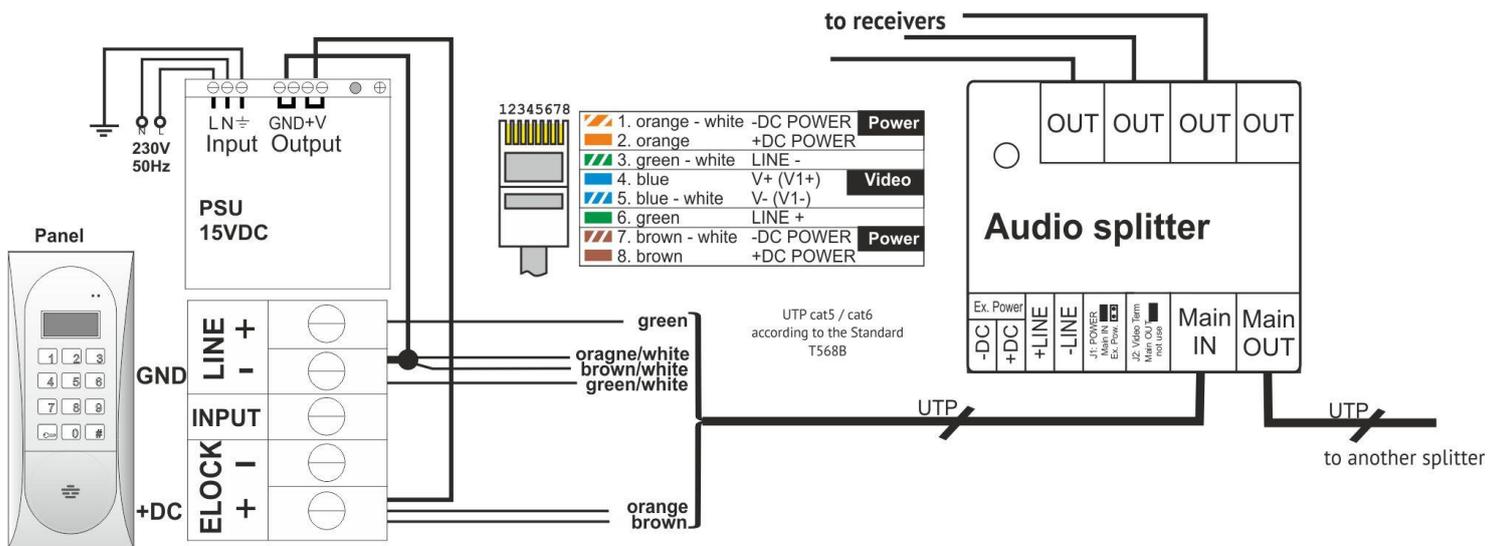


Connecting the system (diagram 1):



* *The use of a 3-wire system, in extreme cases, is allowed in this case
In cases, there may be a problem with unwanted sound effects during the conversation.

Optional use of audio splitters and UTP cables and RJ45 connectors to connect handsets.
(diagram 2):



The power of the power supply unit should be appropriately matched to the number of handsets calling simultaneously (recommended power supply from our range of DC power supplies).
For scheme 2 the permissible number of calling handsets at a same time is 35, or 255 if only one handset rings at a time.

If the number of calls are made by handsets and/or more than one caller at a time, additional power supplies must be used.

Note: In the case of more than one power supply unit, the negative GND terminals of all power supplies (independent conductors), positive +DC terminals should not be categorically connected together.

ADJUSTING VOLUME

After establishing connection we can adjust volume as follows:

- volume control „RING” controls handset ringing volume for the switch 3 in the middle position.
- volume control „SPK” controls handset volume (conversation volume)

Technical data of the handset

power consumption in standby mode: 0,09 W (max. 7mA)
 maximal power consumption while ringing: 50 mA
 voltage 12 - 18VDC
 adjustment of the ringing volume and call volume
 - buttons: open, additional function
 operating temperatures +10C do +50C
 Dimensions: 80 / 201 / 45 mm (width, height, depth)

Using following formula you can calculate power consumption of given amount of handsets:

$$I [A] = (A + B) \times 1,2$$

$$A = K \times 0,007$$

$$B = L \times 0,05$$

Legend: I – recommended power efficiency of power supply
 K – amount of handsets
 L – maximal amount of handsets that ring at the same time (with the same physical address)

In case of longer lines you need take voltages drops on the cables into consideration, in such installations we recommend dividing it into groups with many power supplies.