

UC-282 Expanding Module

The UC-282 is designed to expand a number of wireless zones of UC-281 or UC-282 wireless interface. It provides additional 8 zones interface linking JA-60 wireless detectors or RC-xx remote controls with hard-wired security control panels.

The UC-282 cannot be used independently, as it is not equipped with receiver or transmitter module.

Up to 4 UC-282 expander modules can be used to increase the number of zones of UC-281 or UC-282.

Specification

Power	12 V DC (10.5 V – 16.0 V)
Power consumption	typ. 50 mA (all relays off) max. 150 mA
Zone outputs Z1-Z8	8x optoMOS relays 100 mA / 60 V with COM1 common terminal
Outputs	3x optoMOS relays 100 mA / 60 V NC with COM2 common terminal
Tamper	NO with COM2 common terminal
Fault, Battery	indoor use (class II, EN 50131-1)
Working environment	-10 °C to +70 °C
Operating temperatures	max. 90 %
Operating humidity	188 x 135 x 40 mm
Dimensions	800 g
Weight	



Complies with the essential requirements of: 89/336/EC EMC Directive - Protection concerning electromagnetic compatibility when is used for its intended purpose. Original of the conformity assessment can be found at the web page www.jablotron.cz, section Technical support.

Note: Although this product does not contain any harmful materials we suggest you to return the product to the dealer or directly to the producer after usage.

Purchase package contains: electronic board, metal case, screws, dowels, and manual.

Installation

The UC-280 is an electronic module built-in to a metal case (protected by a tamper switch). The case should be installed on a wall close to UC-281 or UC-282 master module. The device should not be installed close to any metal structures or other objects obstructing radio signal transmission.

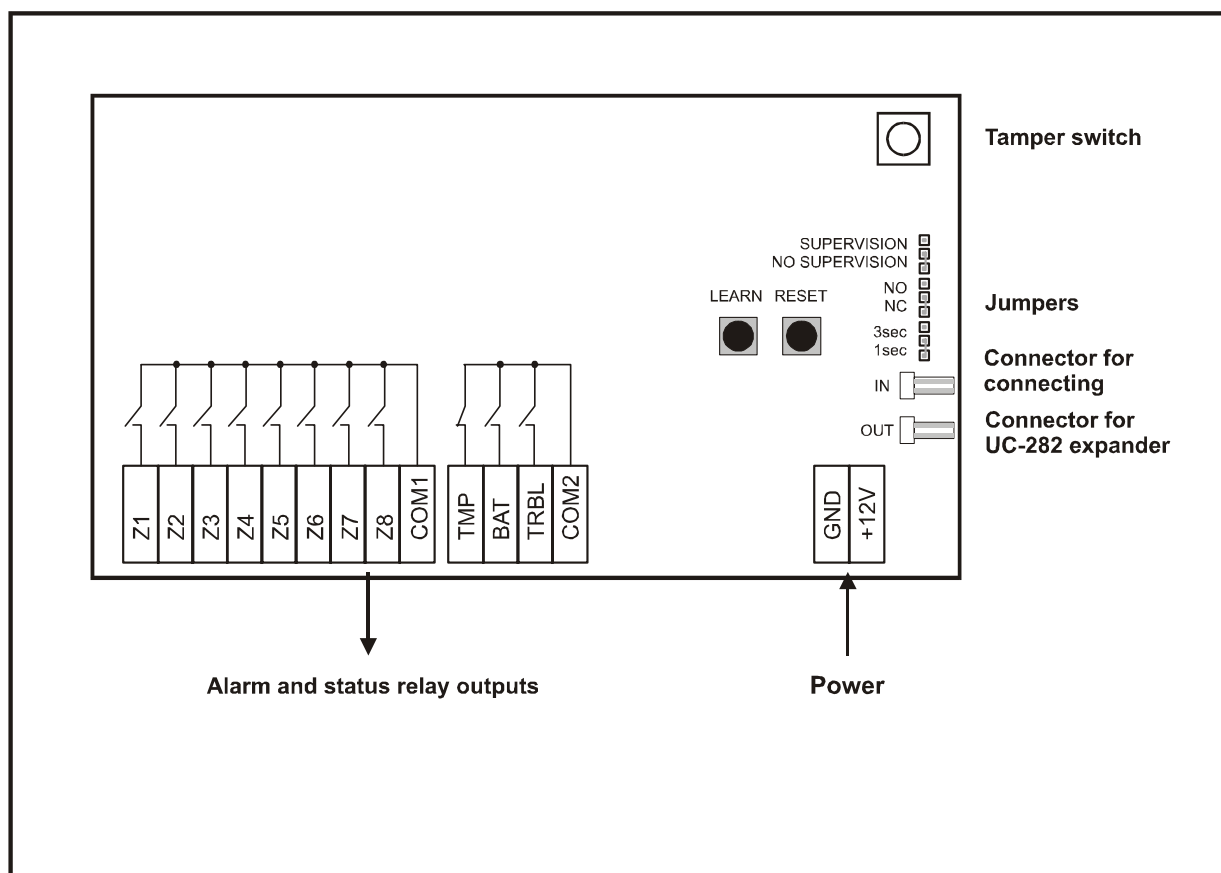
Route the wires through the hole in the rear part of the housing. Attach the case to the desired place using the provided screws. Connect the tamper switch.

Terminals:

Z1-Z8	Zone 1-8 output relays' contacts, max. 100 mA / 60 V, pulse length can be set by 1s/3s jumper, normally closed or normally opened mode is selected by the NO/NC jumper
COM1	common terminal of Z1-Z8 relays
TMP	tamper relay output (tamper signal from wireless detectors, a wireless siren and the UC-280 tamper switch), max. 100 mA / 60 V
BAT	low battery relay output (low battery signal from wireless detectors 1-8 or a wireless siren), max. 100 mA / 60 V
TRB	trouble relay output (trouble signal from wireless detectors 1-8 or a wireless siren - e.g. lost communication), max. 100 mA / 60 V
COM2	common terminal of TMP, BAT and TRB relays
GND	power supply ground terminal
+12V	power voltage terminal
TAMPER	a pair of terminals used for the connection of the case tamper switch

Connectors:

IN	data connector for UC-280 or UC-281 wireless interface
OUT	data connector for additional UC-282 expanding module



Setting buttons:

- LEARN** if this button is briefly pressed, you can scroll through the learning modes of Z1-Z8 zones (a selected channel is indicated by a red flashing LED).
- RESET** if this button is briefly pressed, the learning mode of a selected zone will be closed. When this button is pressed for more than 3 sec., a selected zone will be deleted (confirmed by flashing of the TMP, BAT and TRB indicators). When this button is pressed for more than 6 sec., all zones will be deleted (confirmed by flashing of all indicators). Note, in order to delete all zones, a learning mode of any zone must be selected first.

Jumpers:

- 1s / 3s** pulse length of 1 sec. or 3 sec. of Z1-Z8 output relays
- NO / NC** normally closed or normally opened mode of Z1-Z8 output relays (TMP, BAT and TRB are normally closed)
- Supervision** - Regular checking of wireless detectors' communication can be disabled (NO SUPERVISION position). This setting is recommended in places with radio interferences. When the supervision is enabled, lost communication will trigger the TRB output relay.

Indicators:

- POWER** The green LED indicates the presence of the power supply
- Z1 - Z8,** LED lights green when zone is occupied;
LED lights red when zone detector is triggered;
LED flashes red, when zone is in a learning mode;
LED flashes red together with the TMP, BAT or TRB LED = tamper, low battery or trouble signal in zone
- TMP** tamper alarm – flashes together with a corresponding zone indicator every 3 sec.
- BAT** low battery - flashes together with a corresponding zone indicator every 3 sec.
- TRB** trouble or lost communication - flashes together with a corresponding zone or SIR indicator every 3 sec.

Enrolling of wireless components

Enrolling of detectors

- Scroll to a desired zone Z1-Z8 using the LEARN button
- JA-60 detectors will be enrolled by inserting their batteries or switching on a power supply
- Successful learning is indicated by the red LED
- If you enroll a component to a new zone, it will move from its previous position
- Only one detector can be enrolled to each zone

Enrolling of remote controls

- Scroll to a desired zone Z1-Z8 using the LEARN button
- RC-xx remote controls will be enrolled by pressing a button (while in pulse mode). Button A, B or double press can be enrolled.
- RC-11 or RC-22 Remote controls can be enrolled to any zone in an ON/OFF mode by pressing both buttons and keeping them pressed for more than 5 sec. After this the corresponding relay will switch on when the A button is pressed, and off, when the B button is pressed.
- If a combination of double press and ON/OFF mode is required, the ON/OFF mode must be enrolled first.
- Successful learning is indicated by the red LED
- If you enroll a remote control to a new zone, it will move from its previous position
- Only one remote control can be enrolled to each zone

Erasing components

If you want to delete any item from a UC-282, use the RESET button (the procedure is described in "Setting buttons" paragraph).

Extension for more zones

When 8-zone extension is not enough, you can use additional UC-282 expanding modules. Up to 4 UC-282 can be used with one UC-280 or UC-281. Modules are interconnected using the IN and OUT connectors, wiring should not exceed 1 meter.

