

UC-280 Wireless Interface

The UC-280 is an 8-zone interface linking JA-60 wireless detectors with hard-wired security control panels. It can also send triggering signals to a JA-63A wireless outdoor siren and/or UC-216 and UC-222 universal receivers. Additionally, it can receive signals from Jablotron RC-xx remote controls.

Installation

The UC-280 is designed and supplied as a PCB module for building it into other devices like wired control panels. Use the supplied self-adhesive holders for attaching the PCB to the desired place.

A supplied self-adhesive antenna should be used for the radio module. The antenna should be in a vertical position and should not be installed close to any metal structures or other objects obstructing radio signal transmissions.

Terminals and connectors

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
SIR	triggering input for activation of JA-60A wireless siren (the siren sounds as long as this input is closed to GND, max. 15 minutes)
X	input, which can trigger relay X of a UC-216 or UC-222 universal receiver when switched to GND
Y	input, which can trigger relay Y of a UC-216 universal receiver when switched to GND
OUT	input, which can trigger output OUT of a UC-216 universal receiver when switched to GND
+12V	power voltage terminal
ANT	antenna connector

Setting buttons:

LEARN

if this button is briefly pressed, you can scroll through the learning modes of Z1-Z8 zones and a wireless siren SIR (a selected channel is indicated by a red flashing LED). When this button is pressed for more than 3 sec., the enrolling signal for a UC-216 / UC-222 receiver will be transmitted (learning mode of Z1-Z8 and SIR must be closed first)

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 NO / NC

pulse length of 1 sec. or 3 sec. of Z1-Z8 output relays 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, SIR

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

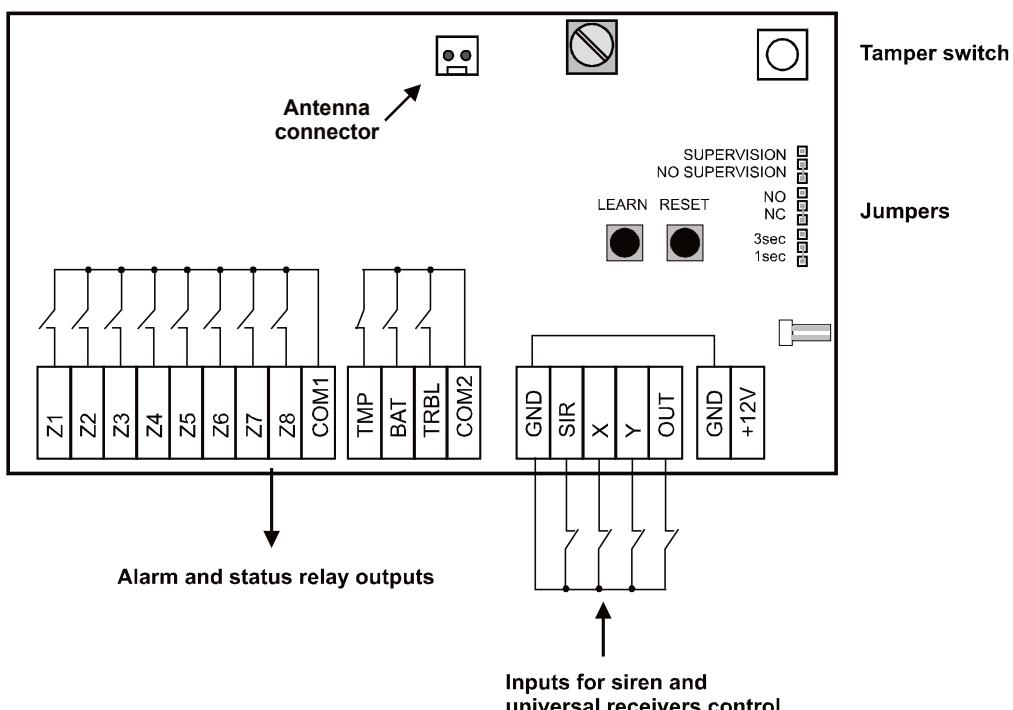
tamper alarm – flashes together with a corresponding zone indicator every 3 sec.

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-86 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

Enrolling of a wireless siren

- Connect a battery in a JA-63A siren and power its adapter
- Select the SIR position with the LEARN button
- When the SIR position is selected, the UC-280 will send a learning signal to the JA-63A and vice versa. Triggering the SIR input will then activate a JA-63A, tamper alarm or power supply failure of the JA-60A will be transmitted to a UC-280
- Only one JA-63A siren can be used with a UC-280

Enrolling of UC-216 or UC-222 modules

- Select the learning mode in a receiver (mode X1 for UC-216 or mode 4 for UC-222)
- Learning mode of UC-280 must be closed
- Press and hold the LEARN button in UC-280 for 3 seconds
- The UC-280 will now be enrolled to the UC-216 or UC-222 receivers and triggering of X and Y inputs will trigger the UC-216 / UC-222 output relays.
- Unlimited number of UC-216 / UC-222 can be used with a UC-280

Erasing components

If you want to delete any item from a UC-280, use the RESET button (the procedure is described in "Setting buttons" paragraph).

Specification

Power	12 V DC (10.5 V – 16.0 V) typ. 50 mA (all relays off) max. 100 mA
Zone outputs Z1-Z8	8x opto-MOS relays 100 mA / 60 V with COM1 common terminal
Outputs	3x opto-MOS relays 100 mA / 60 V NC with COM2 common terminal NO with COM2 common terminal
Tamper	X, Y and Siren inputs activated when switched to GND (filter 0.2 sec., 1 V DC triggering level)
Fault, Battery	433.9 MHz 100 m (open area) 30 m (open area)
Operating frequency	indoor use (class II, EN 50131-1) -10 °C to +40 °C max. 90 %
Working range with JA-60	142 x 74 mm
Working range with RC	Weight 250 g
Working environment	Complies with ETSI EN 300220, EN 50130-4, EN 55022, and EN 60950-1 Can be operated according to ERC REC 70-03
Operating temperatures	
Operating humidity	
Dimensions	
Weight	
Complies with	

Includes: board, tape antenna, mounting posts, instructions



JABLOTRON ALARMS hereby declares that the UC-280 is in compliance with the essential requirements of 1999/5/EC directive. The original of the conformity assessment can be found at www.jablotron.com, Technical Support section

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

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