

# The JA-80D universal transmitter

The JA-80D is a component of Jablotron's Oasis 80 alarm system. It is designed to indicate device status via wireless transmissions. Such a device is typically a detector, but other devices with an ON/OFF switching output terminal (whether NC or NO) are also applicable. Among other uses, status transmission allows the control panel communicator to report device faults. The JA-80D transmitter is battery-powered.

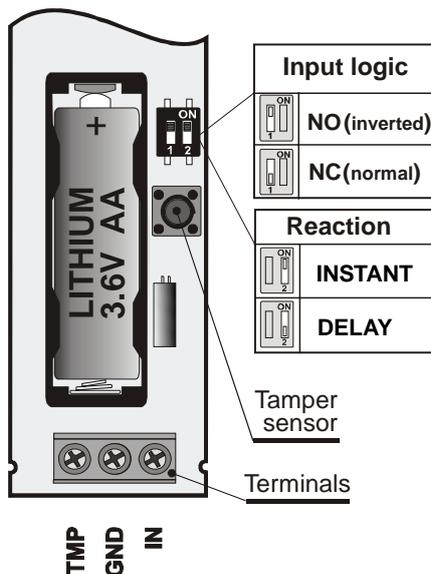
## Installation

Installation shall only be undertaken by technicians holding a certificate issued by an authorized distributor. The transmitter should be installed vertically. Avoid locating it directly on a metal frame as metal influences the functioning of the magnetic sensor and radio communication.

- **Open the transmitter cover** by pressing the tab in.
- Get an appropriate cable ready for the connection of a desired device and **test the device's output terminal for its NO/NC switching logic**.
- Configure the transmitter function via the DIP switches (No. 1 and 2, see below).
- Route the cable and screw the cover onto the chosen location.
- **Enroll the transmitter** to the control panel (to a receiver) – follow the control panel or receiver manual. The basics of enrollment are:
  - Enter enrollment mode on the control panel by **keying in "1" in Service mode**.
  - **Install a battery** into the device to activate enrollment.
  - Exit enrollment mode by pressing #.
- Wire the cable to the terminals and test the function.

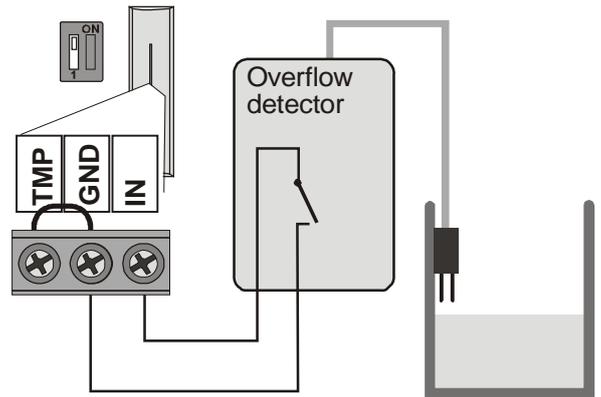
To enroll the transmitter after having already connected a battery, first disconnect the battery, and press and release the tamper sensor to discharge any remaining charge to ready the device for enrollment.

## DIP switches



- NO/NC – determines which of the Closed/Open input states is interpreted as OFF. By default (corresponding to security industry standards) the input is NC (Normally Closed). If a pulse reaction is requested – so that only activations should be signalled – keep the tamper switch pressed during battery installation.
- INSTANT/DELAY – selects what the natural reaction of the control panel will be to an activation signal from the device connected to the IN terminal. INSTANT = instant alarm, DELAY = entrance delay starts – both require the system to be in a set (armed) condition. The INSTANT/DELAY option is only applicable for use with an OASIS control panel with a natural reaction assigned to its address. The switch has no effect when used with a UC-8x or AC-8x receiver.
- Whenever the detector (device) cover is opened, a tamper signal is sent.
- **Tamper indication also occurs on every TMP input activation. If this function is not desired, the TMP and GND terminals must be wired together.**

## Overflow alert detector – a wiring example (NO contact)



Example of NO contact wiring

**Note: The wiring loop must not exceed 3 meters in length (this means a limit of 6 m in the total wire length).**

## Testing the detector

15 minutes after closing the detector cover, the LED indicates detector triggering. The strength and quality of the detector's radio signals can be measured by the control panel in Service mode.

## Detector battery replacement

The system monitors its battery voltage and if too low, a transmission is sent to the control panel (receiver) to inform the installer or user. The detector continues to function and shows each triggering of the detector with a flash of its LED. Battery replacement should not be delayed by more than two weeks. This should be done by a qualified technician with the control panel in Service mode. We recommend testing the detector immediately after its battery has been replaced.

Inserting a battery with a **low voltage results in the LED indicator flashing for approx. 1 minute**. Subsequently, the detector will switch to normal operation including low battery indication of the kind described above.

Expired batteries should not be thrown into the garbage, but disposed of according to local regulations.

## Removing the detector from the system

If a detector is removed, the control panel announces the removal. The detector has to be deleted in the control panel before intentional removal.

## Specifications

Voltage	Lithium battery type LS(T)14500 (3.6V AA)
Typical battery lifetime	approx. 3 years for 20 daily activations maximum
INP/TMP wiring loop length	< 3m in one direction (< 6m in total)
Communication band	868 MHz, Oasis protocol
Communication range	approx. 300m (open area)
Dimensions	110 x 31 x 26 mm
Operational environment according to EN 50131-1	II. Indoor general
Operational temperature range	-10 to +40 °C
EN 50131-1, CLC/TS 50131-2-6, EN 50131-5-3 classification:	grade 2
Complies with	ETSI EN 300220, EN50130-4, EN55022, and EN 60950-1
Can be operated according to	ERC REC 70-03



Jablotron Ltd. hereby declares that the JA-80D is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The original of the conformity assessment can be found on the web site [www.jablotron.com](http://www.jablotron.com), Technical Support section.



**Note:** Dispose of batteries safely depending on battery type and local regulations. Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the manufacturer after use.



Jablotron Ltd., Pod Skalkou 33  
466 01 Jablonec nad Nisou  
Czech Republic  
Tel.: +420 483 559 911  
fax: +420 483 559 993  
Internet: [www.jablotron.com](http://www.jablotron.com)