The JA-68 universal output module

The JA-68 is a universal output module designed for use within Jablotron systems of the JA-80 OASiS, JA-63 Profi and JA-65 Maestro series. The module provides eight factory pre-programmed semiconductor outputs and a switch-over relay output. The relay can be configured using 10 DIP switches which allows for multiple function assignment. There is no limit in the number of JA-68 modules used in the system. There is no limit to the number of JA-68 modules used in the system and the JA-68 module can be combined with GSM, LAN or PSTN (landline) communicators.

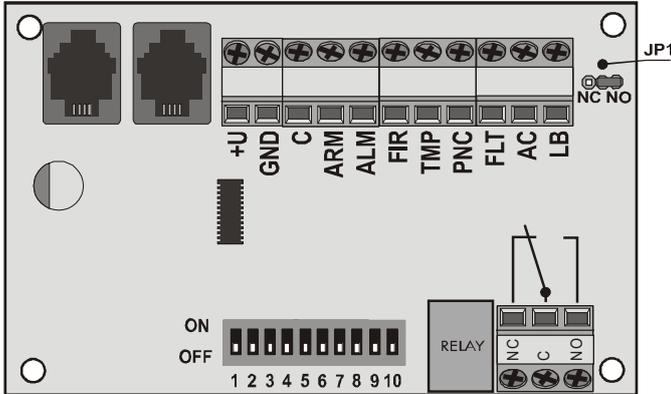**The module is designed for being placed into the control panel housing.**

Figure 1

Semiconductor outputs

All semiconductor outputs are switchable to a common terminal labelled "C". The switching ON/OFF logic can be reversed by setting a jumper JP1 to the NC position (the factory default is NO).

Description of the terminals:

Terminal	Function
+U	Positive power supply from the digital bus (limited to 200 mA)
GND	Negative pole of the power supply
C	Common terminal (for all semiconductor outputs)
ARM	Anything-set status (A or AB or ABC)
ALM	Intruder alarm
FIR	Fire alarm
TMP	Tamper alarm
PNC	Panic alarm
FLT	System fault indication (radio communication faults, RF jamming, back-up battery fault, +12 V output terminal fault)
AC	Mains (230V) supply fault
LB	Low battery indication (applies to wireless devices such as detectors, keypads, sirens or thermostats)

Relay configuration

The relay is configurable via a set of 10 DIP switches (see Table 2). The relay works with OR logic: it is switched ON if there is at least one preset function activated.

Example: Setting switches 2,3,4 and 5 to ON causes the relay to indicate intrusion, fire, tamper or panic alarms i.e. the relay switches ON if any of the four mentioned alarm states are activated.

DIP switches assignments:

Number	Label	Function
1	**ARM**	Anything set
2	**ALM**	Intrusion alarm
3	**FIR**	Fire alarm
4	**TMP**	Tamper alarm
5	**PNC**	Panic alarm
6	**FLT**	System fault
7	**AC**	Power supply fault
8	**LB**	Low battery in device
9	**PGX**	Control panel PGX output
10	**PGY**	Control panel PGY output

Description of relay terminals:

Label	Description
NC	Normally Closed relay contact
C	Common relay contact
NO	Normally Open relay contact

Note: There is a minimum output activation time of 10 seconds for each of the 8 + 1 outputs.

Specification

Power supply	12 V (taken from the control panel)
Stand-by consumption	4 mA
Maximum consumption (all outputs activated)	50 mA
Outputs	8 semiconductor switches + 1 switch-over relay
Maximum current for single output activation	200 mA
Maximum current for C, NC or NO activation	1 A / 60 V
Minimum output activation time	10 s
Digital bus connection	2x RJ-44 data connectors
Environment	class II., indoor general
Operational temperature range	-10 °C to +40 °C
Complies with	EN 50130-4, EN 55022

JABLOTRON ALARMS a.s. hereby declares that the JA-68 is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.

Note: 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.