

Selection of bus speed and addresses

DIP 7 OFF	Functioning with standard bus (9,600 Baud)
DIP 6 OFF	Functioning with TP8-64
DIP 5 OFF	

DIPS 1-2-3-4 - ADDRESSES FOR STANDARD BUS																			
1	2	3	4	Address	1	2	3	4	Address	1	2	3	4	Address	1	2	3	4	Address
ON				0					4					8					12
ON				1					5					9					13
ON				2					6					10					14
ON				3					7					11					15

ATTENTION - Do not use the addresses 0 and 15.

DIP 7 ON	Functioning with quick bus (38,400 Baud)												
DIPS 1-2-3-4-5-6 - ADDRESSES FOR QUICK BUS													
1	2	3	4	5	6	Address	1	2	3	4	5	6	Address
ON						0	ON						63

ATTENTION - Do not use the address 0.

ATTENTION

Never connect two modules with identical addresses.
Further restrictions regarding addressing may follow from the control panel connected to.

Exclusion of tamper

DIP 8 ON	Tamper excluded
DIP 8 OFF	Tamper enabled

TECHNICAL DATA

Device:	SPEED ALM8 PL
Description:	Extension module with 8 inputs and power supply
Tamper protection:	1 microswitch (antiopening and antidetachment)
Connection:	RS485 bus
Operating voltage:	230V~ ± 10%, 50Hz
Max. consumption:	200mA
Voltage and output current:	
Power supply module, detectors	Rated 13.8V
battery recharge	Rated 14.4V
Power supply outdoor sirens	Max. 1.8A
Current available	
Current available for:	
Consumption board	Max. 80mA
Battery recharge (7Ah)	Max. 285mA
Battery recharge outdoor siren (7Ah)	Max. 285mA
Indoor siren output	Max. 250mA
Logic outputs and detector power supply	Max. 500mA
Power supply via serial bus RS485	Max. 400mA
Operating temperature:	+5°C...+40°C



SPEED ALM8 PL

EXTENSION MODULE WITH 8 INPUTS AND POWER SUPPLY



PRODUCT DESCRIPTION

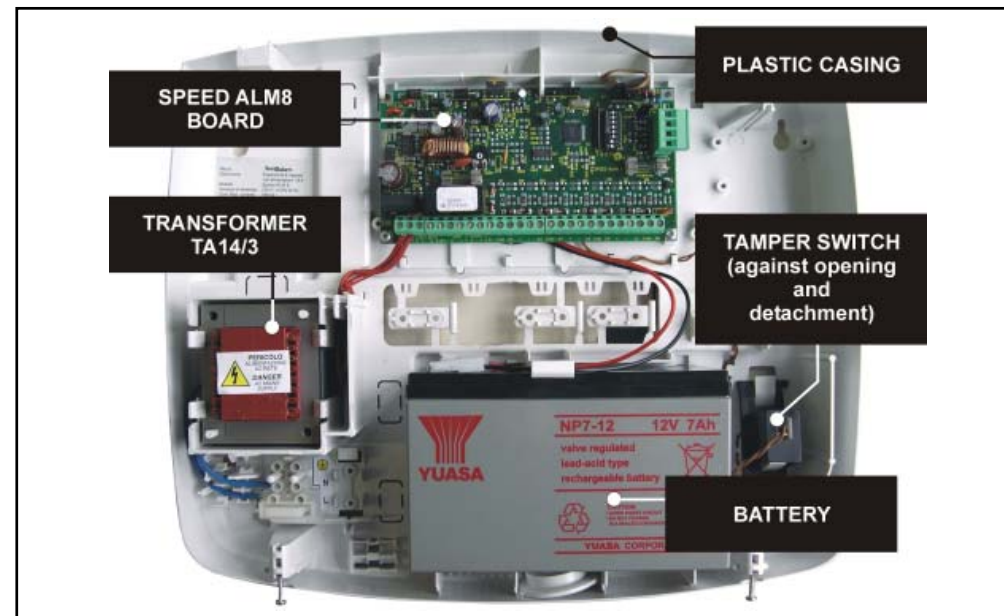
Release:	0.1
Update:	February 2005
Language:	English

SPEED ALM8 PL - Extension module with 8 inputs and power supply

The extension module is composed of:

- 1 electronic board with 8 inputs and 1.8A power supply (SPEED ALM8)
- 1 transformer kit
- 1 plastic casing, size: 345 x 285 x 90mm (L x H x D)
- 1 tamper switch (antiopening and antidetachment)

COMPOSITION



Tecnoalarm

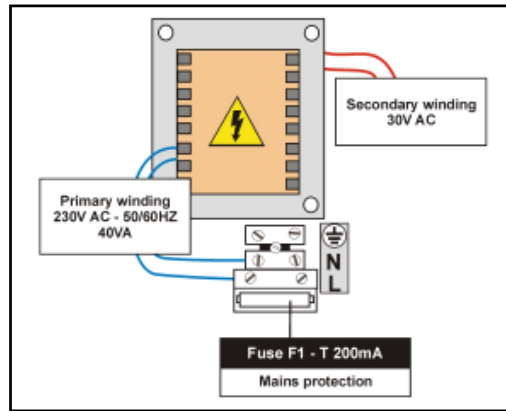
Strada del Cascinotto 139/54
10156 Torino (Italy)
e-mail : info@tecnoalarm.com
www.tecnoalarm.com

TRANSFORMER KIT

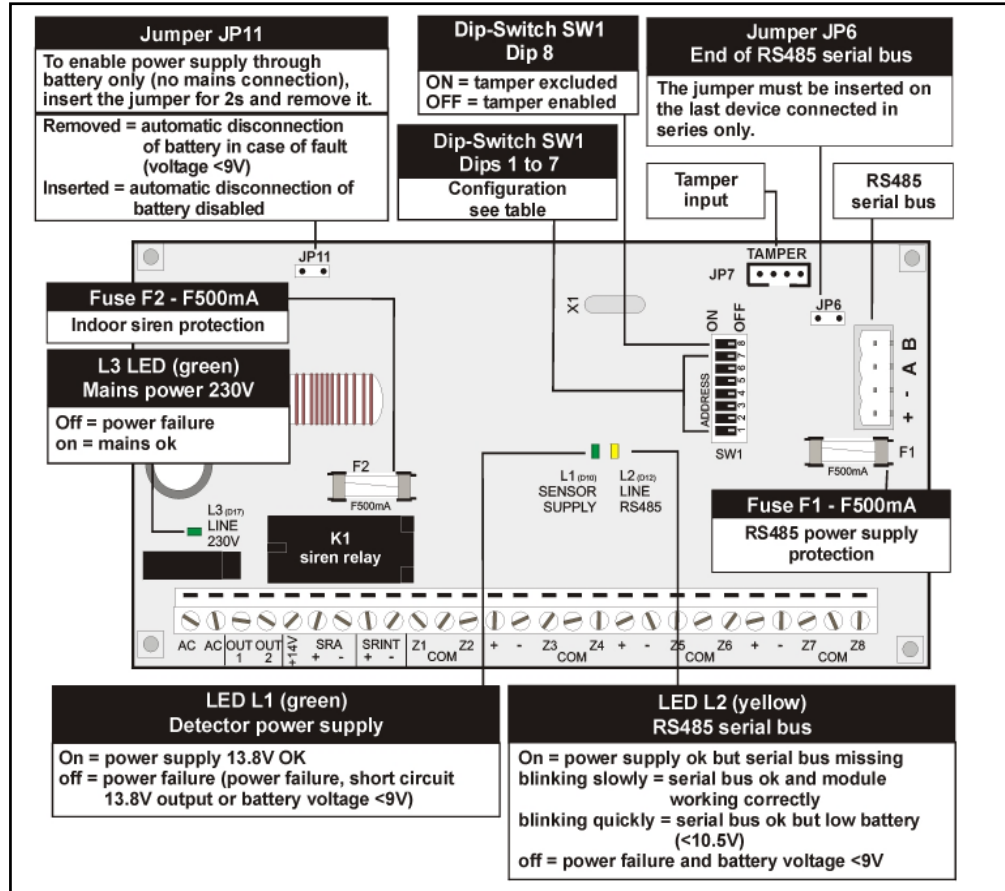
The transformer input (primary winding) is provided with special terminals to facilitate the connection to mains power.

Transformer TA14/3

- Mains input (primary winding) 230V~ (red)
- Output (secondary winding) 30V~/1.3A (blue)
- Frequency 50/60Hz
- Power 40VA
- Mains protection fuse T 200mA



ELECTRONIC BOARD



The electronic board must be connected to the RS485 bus. It permits power supply of the devices connected via RS485 bus and supplies 8 supplementary inputs. The inputs can be programmed as normally closed (NC), normally open (NA), end-of-line resistor (BIL), double end-of-line resistor (B24) or BUS (for all modules connected via Tecnoalarm serial bus).

Terminals

Terminal	Description	Type	Input/output status
AC AC	AC power supply voltage from transformer secondary winding	Input	30V (AC)
OUT1	Programmable logic output	Output	Stand-by - high impedance alarm - negative voltage
OUT2	Programmable logic output	Output	Stand-by - high impedance alarm - negative voltage
+14V	Battery recharge voltage for selfpowered siren	Output	14.4V (DC) - for outdoor siren only
+SRA	Selfpowered siren	Output	Stand-by - 13.8V alarm - high impedance
- SRA	GND (earth)	-	GND (earth)
+SRINT	Indoor siren	Output	13.8V
- SRINT	GND (earth)	-	Stand-by - high impedance alarm - GND (earth)
Z1	Input zone 1	Input	NC / NA / BIL / B24 / BUS*
COM	Common input	Input	13.8V (DC)
Z2	Input zone 2	Input	NC / NA / BIL / B24 / BUS*
+	Detector power supply	Output	13.8V (DC)
-	GND (earth)	Output	GND (earth)
Z3	Input zone 3	Input	NC / NA / BIL / B24 / BUS*
COM	Common input	Input	13.8V (DC)
Z4	Input zone 4	Input	NC / NA / BIL / B24 / BUS*
+	Detector power supply	Output	13.8V (DC)
-	GND (earth)	Output	GND (earth)
Z5	Input zone 5	Input	NC / NA / BIL / B24 / BUS*
COM	Common input	Input	13.8V (DC)
Z6	Input zone 6	Input	NC / NA / BIL / B24 / BUS*
+	Detector power supply	Output	13.8V (DC)
-	GND (earth)	Output	GND (earth)
Z7	Input zone 7	Input	NC / NA / BIL / B24 / BUS*
COM	Common input	Input	13.8V (DC)
Z8	Input zone 8	Input	NC / NA / BIL / B24 / BUS*
RS485 serial bus			
-	RS485 serial bus power supply	Output	GND (earth)
+	RS485 serial bus power supply	Output	13.8V (DC)
A	RS485 serial bus	Input	RS485 serial bus
B	RS485 serial bus	Output	

* NC (0 ohm) - NA (>2K ohm) - BIL (2K ohm...4K ohm) - B24 (2K ohm...4K ohm)

ATTENTION

For power supply through battery only (no mains connection 230V), insert the jumper JP11 for at least two seconds, then remove it. If mains power is connected and the jumper is removed, the battery is automatically disconnected in case of fault (<9V). If you leave the jumper inserted, the automatic battery disconnection in case of fault is disabled. The jumper JP6 for end of RS485 serial bus must be inserted on the last device connected in series only.

PROGRAMMING BY DIP-SWITCH SW1

The electronic board can work both with the standard RS485 bus (9.600 baud) or the rapid bus (38.400 baud). The standard bus provides 4 bit addresses (max. 15 modules), while the rapid bus provides 6 bit addresses (max. 63 modules). The dip-switch 7 determines the bus speed. The dip-switch 8 permits disabling of tamper.