Intruder	alarm system	SAFETY	Short wiring manual – basic information	
	The device must be installed in a place	e with limi	nited access.	
	The device must be connected to an AC po- cable, Neutral line (N) – blue cable, Pro isolated cables with minimum cross-section	ower suppl tective Ear onal area of	oly with Protective Earthing: Phase or Live line (L) – black or brown arth line (PE) – green cable with a vertical yellow dash. Double of 0,75 mm² for 230V power supply must be used.	
	The device uses two power supplies: main Main power supply: a power transformer – primary winding: ~230V, 50 Hz; – secondary winding: ~20V, 1.5A, 50Hz Back-up power supply: 12V, 7Ah/20HR ca	n and back- with: apacity, recl	k-up. chargeable hermetically sealed Lead-Acid battery.	
	SecoLink intruder alarm system is compli All the above described power supplies requirements.	ant with the linked to	ne safety requirements of EN 60950-1:2003. the system must comply with the EN 60950-1:2003 safety	
	Additional automatic Two-Pole Circuit B over-current and short circuits. The circuit breaker contact gap should be The circuit breaker should be placed close	Breaker sho no less that to the syst	hould be installed in an AC electric power circuit in order to prevent an 3mm. stem's housing and should be easily accessed.	
	Power supply distribution board	AC Automati Circuir Cable fro distributi	C power cable to the Alarm System atic Two-pole in Breaker L N L N Trom power ttion board	
\triangle	The device wiring and service should be performed by trained personnel with sufficient knowledge about the device and general safety requirements for work with low voltage (up to 1000V) AC power lines. In the case of a device malfunction repair works can be performed by qualified personnel only.			
	 Before performing any work of installation or service ALWAYS disconnect the device from power supplies in sequence as described below: - cut off 230 VAC power line with the automatic Two-pole Circuit Breaker; - disconnect 12V back-up battery by removing battery female plug from Control Panel male socket BAT. Two-pole Circuit-Beaker installation on flexible cables is forbidden. 			
	General safety requirements: – do not touch any part of the main power supply under voltage: transformer, a fuse block, connection wires; – it is forbidden to perform any device installation or service work during lightning; – use batteries according to manufacturer recommendations. The use of improper battery type may cause an explosion; - battery replacement : be sure battery terminals are isolated, battery terminals short-wiring may cause an explosion.			
	It is not recommended to connect the device to a fully discharged battery. To avoid a malfunction of system use an adequate charger to charge a new or discharged battery before connecting battery with a device. Inoperative or expired batteries should be recycled according to the local rules or EU directives 2006/66/EC and 93/86/EEC. Waste battery collection and returning for utilization separate from household waste is mandatory!			
	The Control Panel Terminals TIP, RING, ISDN line may cause the device damage.	T-1, R-1 s	should be connected to analog PSTN line. Connection to digital	
X	Please act according to your local rules and do not dispose of your old product with normal household waste. The product is covered by European Directive 2002/96/EC.			

<u>secoLink</u>

Control Panels PAS8xx



Intruder alarm system

Control Panels PAS8xx

Short wiring manual - basic information

Wiring diagrams One 12V 7Ah rechargeable battery is Serial port SERIAL (see "Module wiring") Analog PSTN line necessary for correct Control Panel PAS8xx operation. The battery is used O PAS808 0 0000 as back-up power supply in case of the PAS808M AC power supply loss. **PAS808R** \Box T-1 The battery is used as extra power **PAS816** RING E ≦ supply in case of a temporary load PAS832 TIP ∎₽ increase (the siren or the radio 38 Protective Earth transmitter is ON). wire PE (<u>+</u>) □□□ Nut 3.15A Washer 0 + Nut COM -PGM AC1 AC2 12V batterv Washer Black 0 7Ah/20HR Washer Red Bolt Protective Live Neutral 7777 +AUX Z1 COM Z2 + AUX Z3 COM Z4 + AUX Z5 COM Z6 + AUX Z7 COM Z8 wire wire Earth wire Housing grounding Fuse I. Ν PE place 250mA Zones (see "Zone wiring") (Ŧ Control panel and modules have to be fastened in Plastic stud (上 0 1 the Alarm System housing (CAS8, CAS8M) using plastic studs. The module mounting holes should Power supply AC power transformer: PAS8xx board correspond to housing rear wall apertures. Do not distribution board Primary winding: ~230V AC 50Hz forget to fix the plastic studs in the apertures before Secondary winding: ~20V AC 50Hz fastening the housing on a wall. Cabinet wall Template Secolink security systems are supplied to Tamper function customers with a pre-installed template in the Note: In the template PAS8xx zone Z6 is used for wiring the tamper switch of the keypad memory. The template data has been housing. If the housing door is opened the system will indicate a trouble or will transferred to registered system modules during a raise an alarm if the system is armed. If the Tamper function is not necessary it is system start up ("First start"). The template possible to turn it OFF and use Z6 as a normal zone. includes 1 partition and 8 zones. Zone Z1 is used for wiring of the magnetic door contact that monitors the opening/closing of the door. Zone Z2 PAS8xx Turning OFF the Tamper: is intended for an entry/exit path motion sensor Service Mode: wiring, zones Z3, Z4 are used for wiring of interior 200 CAS8, CAS8M System setup motion sensors, zone Z5 is intended for smoke $^{\wedge}$ detector wiring (the smoke detector must be System setup: Modules powered from the PGM output +PGM). Zone Z6 is used for tamper switch wiring. Turn OFF the Housing tamper Z6 + AUX Z7 COM 78 Modules: tamper monitoring if you wish to use zone Z6 for switch {Settings other purposes. In the template the keypad zones M00∢Use Tamper b corresponds to the first zones of control panel on No operation. The programable outputs: +BELL is used for wiring a siren without battery Module Note: The data line (CLK, DAT) length (the distance between (00 1 PGM); control panel and module) must not exceed 300 metres. It is -PGM – for control a siren with battery (00 2 PGM); COM CLK DAT +12 recommended to use a 6-wire or 8-wire cable for the module +PGM is used for smoke detector powering (00 3 wiring. It is advised to use the free wire pairs for the module PGM) 0000 power supply, when the modules are on considerable distance from PAS8xx. Default PIN codes Module 2 🗸 (300 m) +12V COM CLK D Default service PIN 0000 75 m Default user 01 PIN 0001 +AUX 150 m Module 3 X(375 m) Default user 02 PIN 0002 COM 75 m CLK Default user 31 PIN 0031 DAT 150 m PAS8xx Module 1 🗸 (150 m) +BFI I 12V It is possible to find out the voltage between module terminals +12V ir COM during Siren without battery COM COM the voltage test ("Main Menu/Test/Voltage Test"). The SECOLink module supply voltage should be in the range of 9-14 V, but for module RCM800(wl) it should exceed 10,5 V if the Relay PGMs are used. +BELI +12V 🕅 В COM • C_ ● Siren wirh batterv COM PAS8xx Module -PGM Δ S + Voltage is measured only in a point A. The voltages on terminals of connected k detectors B, C should be measured using a voltmeter. If a high level is not enough for siren control, it is necessary to connect a 3-15 kOhm resistor between terminals +BELL and -PGM Operational maximum ratings of control panel PAS8xx Note: In the template output Setting: Maximum permissible long term load of the power supply: 0,7 A +BELL is set for wiring the $(I_{+AUX} + I_{+BELL} + I_{+PGM} \le 0.7 \text{ A})$ Maximum permissible load of the +AUX output (switching "+"): Service Mode: siren without a battery. If you System Setup +0.8 A wish to wire a siren with a System Setup: battery it is necessary to Maximum permissible load of the +BELL output (switching "+"): +0,8 A ◀PGM Outputs change the +BELL (00_1 Maximum permissible load of the -PGM output (switching "-"): -0.05 A PGM) definition to "Power 001 (Definition supply" setting. Power Supply Maximum permissible load of the +PGM output (switching "+"): +0,8 A Note: In the template output +PGM (00_3 PGM) is Maximum permissible battery charging current: 0,4 A set for the smoke detector powering (see page +PGM Battery is disconnected when voltage is less than: 9,5 V 5 "Wiring samples").



Short wiring manual - basic information

Wiring of modules





Intruder alarm system





Additional information



Control Panels PAS8xx

Short wiring manual - basic information





The smoke detectors may be triggered by dust, so in order to prevent false alarms it is necessary to execute an trigger re-check. For achievement of this objective an attribute "Fire verification" has to be assigned to the system's fire zone, the smoke detector has to be powered by PGM output with definition "Fire Power Supply" and the fire zone has to be assigned to the corresponding PGM trigger source. In the template is set that fire zone is the control panel zone Z5, the +PGM2 output is used for power supply of smoke detectors.

Operation: In order to check the triggered smoke detector it's power supply has to be turned OFF and turned ON again. The system turns OFF the PGM output for a time equal to PGM trigger time. When this time expires the system turns ON the PGM output again and waits for detector operating status settling different manufacturers may have a ("Detector settling time"). The system executes the different contact layout. For more detector trigger re-check with duration equal to "Fire detailed information about contact verification time". If during this time the smoke layout look the documentation detector is triggered again the system raises a fire supplied by manufacturer of smoke alarm and sends report, if there are no smoke detector trigger the system does not alarm.



Short wiring manual - basic information

Wiring of GSV2 (with monitoring of modules)



The control panel is monitoring the operation of modules constantly. If the operation of module fails and the module gives no response to the control panel commands, then the control panel turns OFF for a short time the PGM output +AUX that powers the modules in such a way trying to restart the module.



The such wiring way ensures, that even in case of the short circuit between +AUX and COM the module will be able to execute the its main duty - reporting to the Central Monitoring station or to the user. If the module is wired under this diagram, the control panel can not execute module monitoring and restore its normal operation in case of failures.



Intruder alarm system