

**MINIMUM TECHNICAL SPECIFICATIONS REQUIRED FOR THE SECURITY GADGET –
ALARM**

<u>TECHNICAL SPECIFICATIONS FOR INTEGRATED (BURGLAR CUM FIRE) ALARM SYSTEM WITH IN-BUILT AUTO DAILER</u>			
Sr No	Parameters	Specifications	Remarks
1	Control Panel	Specification :- 1. one Zone with fire and smoke detectors connection 2. one zone with Panic Switch connection 3. one Zone with PIR Sensors sequence 4. one zone with Shutter / Door Sensors above all features must be in other 4 zones if panel installed 8 zone. Fire Alarm zone must be connect with in built PCB or inbuilt feature Panel with LAN port (for CMS connectivity), CCTV camera connectivity port, in built Auto dialers, Separate Key pad (to install in BM's cabin), Auto Alarm / Disarm as pe the time set. (it's required for Night mode or day mode operation). Main Input Volatage - 230 to 250 Volt AC, 50 Hz One Zone for 24 hour emergency zonne for better security One Zone for Day/Night Mode for Intrusion detectors with variable Entry/Exit delay selection of 15, 30, 120, upto 255 secs Built-in tone generator and amplifier for External Speakers (min 2nos) Tamper proof wiring for panic buttons, Night Sensor and Speakers/Sounders Auto Isolation of defective zones Testing of Wiring, Panic Buttons, Night Sensor without sounding the main speakers/sounders Different coloured LED's for - a. Mains indication b. Battery indication c. Faulty / Isolated Zones indication d. Alarm Indication e. Day / Night mode indication Highly user friendly design Software upgradeable for new features Easy interface with other systems and security accessories like Magnet Switch, PIR, Auto Dialer etc High tolerance against noise and voice variations Modular construction for easy servicing	

		Activation in case of tampering In-built battery back-up provision Automatic switch over from power mode to battery mode in case of power failure and vice-versa Battery Protection-Battery deep discharge & short circuit through fuse Amplifiers Protection against False Alarm / Anti -Rodent facility. Certification - CE Back-up battery -12 Volts, 7 Ah, SMF battery (Standard Make) Reporting formats - SIA3, Contact ID & Fast Format SMS Remote Control App compatibility PSTN and/or GSM Modem In-built Memory logs -1250nos GPRS modem for IP Communication Remote Control + App compatibility No. of Partitions - 8nos. Certifications -Environmental Class II	
2	External Speaker (with LED option)	a. 40W b. Power (65-70 db) c. 4 wired with tamper loop d. Low current consumption e. ABS Body f. Weather Proof Housing	
3	IP compatibility In-Built Auto Dialer	The Alarm system must be IP compatible for future CMS Built in Auto dialer (PSTN), alert test mode, emergency alarm, alarm Acknowledgement, Tamper proof.	
4	Surface Mounted Magnetic Contact	a. Minimum Operating distance 15-20mm b. CE approved	
5	Dual Technology Passive Infrared Detector (PIR Sensor)	a. Microwave Frequency b. Detection range 10m x 10m c. Microprocessor Controller d. Tamper proof mounting e. Automatic temperature compensation f. Sealed Optics g. Adjustable Ring h. Wide coverage angle, Min 85 Degree i. Rodent / Pet Prrf j. Good Temperature tolerance	

		k. Superior Radio frequency, fast transient and electrostatic discharge immunity l. CE certified	
6	Panic Button	1. Microswitch rated at 5Amp @24 VDC 2. Touch ABS Plastic 3. Output-NC,NO	
7	Magnetic Contact	1. Magnetic Contact WHITE 2. Standard Gap : 1" (25mm) 3. Adhesive / Screw Mounted 4. 12" (30cm) leads	
8	Overhead Shutter Magnetic Contact	a. Standard Gap 2" b. 24" armored cable c. Cast Magnet	
9	PIR Motion Detector	Detection Method : Dual Element Passive Infrared Coverage : 1. Detection Zones :85 degree, 52 zones, 5 planes *a. Pet Immune lens : 52 zones 2. Pulse Processing a. Intermediate, Standard or Harsh selectable via jumper link 3. Temperature Compensation a. Advance Digital Temperaturecompensation adjusts for above and below body temperature 4. Tamper Proof Design a. Alarm relay cannot be compromised with a magnet 7. Detectable Walk Rate a. 0.5 - 10 ft/sec 8. Mounting Height a. 7ft (2.4m) recommendable for Pet Immune 9. Blue Wave Technology 10. Alarm Relay : Form A. SPST 90mA @ 16 VDC with 15-Ohm protective resistor 11. Input Voltage : 8-16 VDC 12. Current : 4mA (Standby) 13. Operating Temperature : Upto 95% RH (max) non-condensing 14. Certification - CE 15. Environmental Class -II	
10	Glassbreak Detector	a. Physical Dimensions : White high impact ABS plastic housing c. Range : 8m max omnidirectional, no minimum range d. Alarm Relay : Form C, 125mA, 25 VDC e. Tamper Switch : Combination of cover & wall tamper f. Power Requirements: 6-18 VDC, 12mA g. AC Ripple : 4 V peak-to-peak at nominal 12VDC	

		h. Operating Temperature : -10 to 50 Degree i. Approvals - CE j. Angle of Coverage -360 degree k. Glass Type / Thickness : Plate, Tempered, Laminated, Wired, Coated, Sealed, Insulated, max 10mm l. Dual confirmation detection - First Impact m. Detects the frequency of glass flexing n. Detects the frequency of glass breaking	
11	Shock Sensor	Loop Voltage - 3VDC (min) to 20VDC (max) Loop Current - 100mA max Power Requirement - Less than 1 Ma Transient Suppression - 600 watts Alarm Output type - Normal-Closed solid-state output Alarm Output resistance - 20 Ohm max (closed /alarm condition) 1 Ohm minimum (open/alarm condition) Alarm Output timing - Open for 1 sec min during an alarm condition Operating temperature - 18 - 55 degree Dimensions - Wiring Leads - 22 AWG, 2 conductor zip cord Colour- White	
12	Keypad	Alpha Numeric Keypad with 2 sensor input Wiring : 4 wire Current - Standby 60mA, Activated -190mA Integrated Prox reader Internal use Prox reader	
13	External Sounder	Electronic Siren, 6-12VDC, 15 watt, 109 db Current - 100mA Output - 110db Size - 60mm x 60mmx70mm	
14	Hooter (Long Range)	Electronic Siren, 6-12VDC, 15 watt, 117 db Voltage - 12V DC Current Draw : 400mA, 6 VDC / 1.2 AMPS, 12 VDC Sound Output : 118 db, 12 VDC	
15	Battery	7 Ah battery for back-up (SI Scope)	
	Smoke Detectors	Wide-angle, dual-color LED indication Built-in remote maintenance signaling Voltage - 12/24V non polarised Built-in test switch Operating Temperature Range = 2W-B and 4W-B: 32°F to 120°F (0°C to 49°C); 2WT-B and 4WT-B: 32°F to 100°F (0°C to 37.8°C) Operating Humidity Range = 0 to 95% RH non-condensing Thermal Sensor = 135°F (57.2°C) fixed	

		Freeze Trouble = 2WT-B and 4WT-B only: 41°F (5°C) Input Terminals = 14 to 22 AWG	
16	Heat Detectors	Wide-angle, dual-color LED indication Built-in remote maintenance signaling Operating Voltage / Contact Rating = 6–125VAC / 3A 6–28VDC / 1A 125VDC / 0.3A 250VDC / 0.1A Maximum Installation Temperature = 5601P, 5603, 5621, and 5623: 100°F (38°C) 5602, 5604, 5622, and 5624: 150°F (65.6°C) Rate-of-Rise Threshold = 15°F (8.3°C) rise per minute	
17	Wire / Cable / Conduit : SI Scope	a. fire Alarm cable must be FRLS - Min One Sq MM (if Armoured to protect cutting or rat bites) b. PIR sensor cable must be 4 core armoured cable to prevent false alarms. In others cases, any other cable is ok	
18	Accepted Make/Brand	DSC, Securico, Qualitronics, Digitals, Seple, Eagle, Gadsec, Taxecom, ANG, Godrej, Rider, NSE, Methodex	