

Control Panel Checklist - Installation Details

Date:	Ref:		User Code:		
Name:			Default Code:		
Address:					
Tel:		Panel Model:			
Always perform the foll	owing tests in the order sl	nown			
MAINS PHASE NEUTRAL TEST: A This should measure between	AC voltage between live and neutra 220 - 250VAC	al			
MAINS PHASE EARTH TEST: AC This should be the same as the	voltage between live and earth e previous reading				
MAINS NEUTRAL EARTH TEST: A	AC voltage between neutral and ea d 1.2VAC	irth			
POWER SUPPLY CURRENT NOR Measure with meter in series v	RMAL TEST: AC current used by syst with the transformer output	tem when unset.			
POWER SUPPLY CURRENT IN A Measure with meter in series v	LARM TEST: AC current used by sys vith the transformer output	stem when in alarm	le		
INDUCED AC TEST: AC voltage AC noise should not exceed 1.2					
BATTERY CHARGING VOLTAGE Measure with charge leads cor	TEST: DC voltage at battery termin nnected to the battery	als.			
PANEL AUXILIARY DC VOLTAGE Should be within ±1 volt of the	TEST: DC voltage supply to detect battery charging voltage	ors.			
	DC mA current flowing through ba igure to a single mA figure within 3				
	DRMAL TEST: DC current used by sy cent of the battery's Ah capacity	stem when unset.			
	ALARM TEST: DC current used by s cent of the battery's Ah capacity	ystem when in alar	m.		
BATTERY TEST: Record tempera Replace battery when reading	ature, voltage and capacity availabl falls below 65% of Ah capacity	le.	°C	DCV	Ah
CIRCUIT RESISTANCE TESTS: Re Circuits must be removed from					
CIRCUIT EARTH LEAKAGE TEST: Test with meter on highest me	Check for resistance between zon g ohm range	e, tamper and eartl	n.		
BELL TAMPER RETURN TEST: Re Check for stable resistance.	ecord resistance between 0 volt an	d removed tamper	return.		
	test all detection zones to confirm rmally, especially after lightning	operation.			
SELF-ACTIVATING BELL TEST: R Replace if defective	emove hold-off voltage to confirm	operation.			
BELL AND STROBE TEST: Activa Replace if defective	ite bell and strobe to confirm opera	ation.			
COMMUNICATOR TEST: Activat Confirm correct operation with	re communicator to confirm operat n alarm receiving centre	tion.			
WIRING AND CONNECTIONS: C Check all cables are marked an	Check panel for incorrect or loose wand connected correctly	viring connections.			
	eck voltage at furthest detector is a				



Pictorial Guide to Control Panel Checklist



Step 1.1

MAINS VOLTAGE ACROSS LIVE AND NEUTRAL

- 1. Switch multimeter to highest AC range
- 2. Connect test probes across live and neutral
- Reading should be between 220 and 250VAC and reasonably stable



STEP 1.2

MAINS VOLTAGE ACROSS LIVE AND EARTH

- Connect test probes across live and Earth
- Reading obtained should be almost
- identical to previous reading A difference of more than 1.2VAC means an Earth fault may exist



STEP 1.3

MAINS VOLTAGE ACROSS NEUTRAL AND EARTH

- Switch the multimeter to 20VAC range
- Connect test probes across neutral and Earth
- Reading should not exceed 1.2VAC (example shows 0.019V)



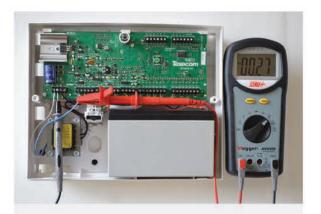
STEP 2

POWER SUPPLY CURRENT NORMAL (UNSET)

- Switch meter to highest AC current range
- Disconnect either AC output lead to panel
- Connect test probes in series with removed lead and power supply terminal
- 4. Record AC mA reading obtained



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Step 3

POWER SUPPLY CURRENT IN ALARM

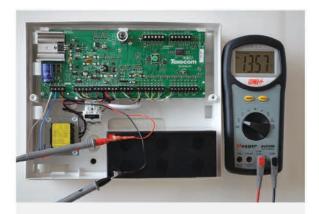
- 1. Generate a full alarm condition
- 2. Record AC mA reading obtained
- 3. Excessive current in this or previous test indicates a system fault
- 4. Disconnect 12VDC supply to PIRs, bells, battery etc in turn to identify fault



STEP 4

INDUCED AC VOLTAGE

- 1. Switch multimeter to 20VAC range
- 2. Connect probes across any DC+ and Earth
- 3. Induced AC reading should not exceed 1.2V
- 4. To eliminate induced AC, fit an ACT 1313 12V spike suppressor



STEP 5

BATTERY CHARGING VOLTAGE

- 1. Switch multimeter to 20VDC range
- 2. Connect test probes across battery
- 3. Reading should be between 13.5 14VDC (Below 13V the battery will not charge, above 14.5V the battery will overcharge)



STEP 6

AUXILIARY DC VOLTAGE

- 1. Connect probes across auxiliary DC supply
- Reading obtained should be within 0.5VDC of battery charging voltage
- Any variation ± 1VDC may cause false alarms



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Step 7

BATTERY FLOAT CHARGE

- 1. Switch multimeter to DC mA range
- 2. Remove red charge lead from battery
- Connect test probes in series with removed charge lead & positive battery terminal
- 4. A double mA reading, falling to a single mA reading should occur within 30 seconds
- If a constant high or no mA reading, replace battery

STEP 8

BATTERY CURRENT NORMAL (UNSET)

- 1. Switch multimeter to 20A DC range
- Disconnect mains supply by removing panel or 'spur' fuse
- Reading ideally should not exceed 5% of battery capacity (7Ah = 350mA)

STEP 9

BATTERY CURRENT IN ALARM

- 1. Generate a full alarm condition
- Reading ideally should not exceed 10% of battery capacity (7Ah = 700mA)



Step 10

BATTERY CAPACITY TEST

- 1. Disconnect battery from control panel
- 2. Check battery terminals are clean
- 3. Connect battery tester leads red+ black-
- 4. Record ambient temperature, DC voltage and Ah capacity available
- 5. Replace battery when capacity falls below 65% (e.g. 7Ah replace below 4.55Ah)

