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Fire Detection & Fire Alarm System Standby Power Supply Capacity Verification Record

Certificate Number: C170007

| | | | |
|-------------------------|--|---|---|
| JOB / RECORD REFERENCE: | 42087 | AS RECOMMENDED IN ANNEX D OF BS 5839-1:2017 | |
| Example Co Ltd | | | |
| 1 Example Street | | | |
| Exampleton | | | |
| EX4 MPL | | | |
| CLIENT NAME: | Tes T Customer | SITE NAME: | Mrs Demi Onstration |
| DETAILS OF CLIENT: | Unit 10 Justin Business Park Sandford Lane, Wareham, | SITE ADDRESS: | 1 St. Georges House Vernon Gate, Derby, |
| | Dorset, United Kingdom, BH20 4DY | | Derbyshire, United Kingdom, DE1 1UQ |
| CIE / POWER SUPPLY REF: | CF - CIE / Power Supply Ref | LOCATION: | CF - Location |

After ALL the equipment has been installed/connected and is working correctly then the following procedure should be followed:

1. Ensure that the mains power supply unit is switched on.
2. Remove positive lead from the battery and insert the meter in series with the positive lead and the battery, meter positive to battery positive.
3. Insert the meter leads in the "common" and "AMP" sockets and switch the meter on (you will see a negative reading).
4. Switch off the mains supply to the control unit and let the meter stabilise. Record the reading as the stand-by load.
5. Create an operational condition so all outstations operate. Record the reading as the operational load.
6. Restore the mains power, remove the meter, reconnect the battery and reset the control and indicating equipment.

SECTION 1 BATTERY CAPACITY CALCULATION

The purpose of these measurements is to check that the battery and charger sizes fitted are adequate to support the system for the required duration after it has been installed/extended/modified, and also at a 12 monthly periodic inspection and servicing visit.

| | | | | | | | |
|---|----|---|--|---------|---|---|------|
| (a) Stand-by Load (mA) | 11 | X | (b) Stand-by Duration (in hours) | 22 | = | (c) Stand-by Capacity (mAh) | 242 |
| (d) Operational Load (mA) | 33 | X | (e) Operational Duration (in hours) | 44 | = | (f) Operational Capacity (mAh) (d X e) x 1.75 | 2541 |
| (g) Minimum Required Capacity (c + f) ÷ 1000 x 1.25 | | | (h) Capacity of battery installed (ah) | | | TR - 5 | |
| | | | | 3.47875 | | | |

SECTION 2 CHARGER CALCULATION

| | | | | |
|---------------------------------|--------|---|---------------------------------------|--------|
| (i) Maximum time to full charge | TR - 6 | X | (j) Minimum charge rate required (ah) | TR - 7 |
|---------------------------------|--------|---|---------------------------------------|--------|

SECTION 3 RESULTS

| | YES | NO |
|--|-------------------------------------|-------------------------------------|
| Installed battery capacity is suitably sized? (if h is greater than g then the installed battery capacity is suitably sized) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| The charger has the capability to recharge the battery following full discharge within a maximum of 24 hours? [BS 5839-1:2017 25.4d] | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| The power supply is certificated to BS EN 54-4? [BS 5839-1:2017 11.2p] | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| | | | |
|---------------------|----------------------|---------------------------------|----------------|
| ENGINEER SIGNATURE: | <i>James Haworth</i> | QUALIFIED SUPERVISOR SIGNATURE: | <i>Support</i> |
| | James Haworth | PRINT: | Support |
| | 17/11/2022 | DATE: | 17/11/2022 |

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