

## How to check loop continuity & OV continuity

<b>Product Range:</b>	OmniCare
<b>Product Code (if applicable):</b>	BVOC4M / BVOC4MS / BVOC8M / BVOC8MS / BVOC16M / BVOC16MS / BVOC32M / BVOC32MS / BVOC48 / BVOC48S / BVOC64 / BVOC64S / BVOC80 / BVOC80S / BVOC96 / BVOC96S / BVOC112 / BVOC112S / BVOC128 / BVOC128S
<b>Description of activity:</b>	Checking loop / OV continuity
<b>Description of likely fault(s):</b>	<ul style="list-style-type: none"> <li>See below</li> </ul>

Please Note: "Inspection and servicing needs to be carried out by a competent person with specialist knowledge of the equipment used. This will normally be an outside organisation; care needs to be taken to ensure that, if, for example, in-house employees are used for this task, they have equivalent competence to the technicians of a typical servicing organisation." (BS5839-9).

### Description of rectification works:

**ENSURE WHEN POWERING OFF THE SYSTEM TAKE THE BATTERIES OFF FIRST THEN THE MAINS AND WHEN POWERING BACK ON PUT THE BATTERIES ON FIRST THEN MAINS TO NOT CREATE A FUSE FAULT.**

1. Terminate all field cabling, keeping cable colour consistent  
Blue for OV  
Brown for +V  
Black for data L  
Grey for data H.
2. Plug blue block into termination board on remote device(s).
3. For BVOCRIFs (repeater/toilet alarm interface, if fitted) put test link into test position.

### Description of possible non-continuous cable:

1. No continuity on one or more cables?  
Check for shorts to other conductors in case of a crossed cable.
2. No continuity on any cable including earth?  
Make certain all termination blocks have blue connector block firmly in place.  
Check all terminations are tightened correctly.  
Ensure no cable protection is affecting continuity of cable.
3. Check across the card for continuity of conductor in case a dry joint exists across the termination card.
4. Once all cables are continuous, with no short to any other conductor, including earth, then connect the devices and place BVOCRIF test link back into normal operating position.
5. The only cable now with continuity should be the blue OV cable
6. Only when a continuity check finds that blue is the only continuous conductor, can the power be applied to the loop.

<b>Author:</b>	Ashley Wright	<b>Doc Reference:</b>	5.0012
<b>Approved by:</b>	Ashley Wright	<b>Edited by:</b>	N/A
<b>Release Date:</b>	30/11/17	<b>Updated:</b>	15/02/2022

**For further help:**

**Manuals & Guides:** Technical manuals, installation guides and more are available for download on our website: [baldwinboxall.co.uk/downloads](http://baldwinboxall.co.uk/downloads).

**Telephone:** Technical help line (0)1892 664422 (then press 3 for after sales technical help).

**Training:** We hold a range of courses. To find out more, or place a booking, please call us or visit our website: [baldwinboxall.co.uk/training](http://baldwinboxall.co.uk/training).



**BALDWIN BOXALL**  
LEADING THE WAY TO SAFETY

Baldwin Boxall Communications Ltd  
Wealden Industrial Estate, Farningham Road,  
Crowborough, East Sussex, TN6 2JR, United Kingdom

T: +44 (0) 1892 664422  
E: [mail@baldwinboxall.co.uk](mailto:mail@baldwinboxall.co.uk)  
W: [www.baldwinboxall.co.uk](http://www.baldwinboxall.co.uk)