


**Ventico Australia Pty Ltd**

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**TECHNICAL INFORMATION  
BULLETIN/SAFETY ALERT  
DOC NO: TBSA-26-01**

<b>ITEM OF EQUIPMENT:</b>	<b>All Ventico camera systems</b>
<b>VENTICO PART NUMBER:</b>	<b>150307, 151482, 151630, 151631, 151651, 152002, 153023, &amp; 154782</b>
<b>EARSA NUMBER:</b>	<b>3669</b>

**Distribution:**
**Purpose**

To advise all operators of the Ventico Australia camera monitor system of a risk highlighted from the industry

This bulletin outlines the following:

- a failure identified by the NSW resource regulator on a different brand of camera system that uses similar components used by the Ventico Australia camera system
- How to rectify and control the risks identified by this incident

**Background**

The cameras are supplied power from a DC/DC converter in the display. This circuit does not latch in the event of a short circuit or overload fault. This may present a risk of fire or explosion. The display/camera system is typically supplied with power from a flameproof alternator. The display utilizes a switching power supply which powers the remote camera(s). This power supply provides galvanic isolation from the alternator circuit. The short circuit protection is thus provided by the DC/DC converter rather than the alternator.

**Issue:**

The conditioner board limits available current in the event of a short circuit condition on the output of the power supply. However, when a continuous short circuit is present the power supply does not latch and stay open. In terms of risk evaluation, it should be noted that the:

- Circuits are extra low voltage (12 Volts)
- Maximum current available from the convertor is <1.6A
- Cables are installed within flameproof enclosures and should be install as per any relevant technical standards for underground coal mines
- The camera circuit does not share power with any other circuits.
- The cable should be installed in a location that is protected, supported and separate from other fuels, energy sources other circuits crush points and rotating machinery
- Cabling used is significantly over rated for current carrying capacities

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**Action:**

- it is recommended that All machines using the Ventico monitors and switchboxes identified in this bulletin have the conditioning board replaced with an upgraded unit fitted with fuses.
- All machines using the Ventico monitors and switchboxes in this bulletin must undergo the repair by either Ventico or 3800 qualified personnel
- some older part numbers have been superseded by new ones see below for information on what is recommended by Ventico Australia.
  - 150307 – Flameproof Display Enclosure, GA, DE-01
    - Upgraded conditioner board 156421 may be fitted in field using Ventico kit- P#902895
  - 151482 – Control Box Assembly, Camera Switch
    - Upgraded conditioner board 156421 may be fitted in field using Ventico kit- P#902895
  - 151630 – Monitor, Flameproof, Assembly, 12VDC, With Internal Switching PCB
    - Upgraded conditioner board 156421 may be fitted in field using Ventico kit- P#902895
  - 151631 – Monitor, Flameproof Assembly, 24Vac - **Superseded by 150307**
    - Return to Ventico for overhaul to 150307
  - 151651 – Monitor, Flameproof, Assembly, Switching 110V AC
    - Upgraded conditioner board 156421 may be fitted in field using Ventico kit- P#902895
  - 152002 – Monitor, Flameproof Assembly, SA
    - Upgraded conditioner board 156421 may be fitted in field using Ventico kit- P#
  - 153023 – Display Assembly, Control Box, Camera Switch – **Superseded by 151482**
    - Return to Ventico for overhaul to 151482
  - 154782 - Monitor, Flameproof Assembly, 12VAC - **Superseded by 150307**
    - Return to Ventico for overhaul to 150307

New documentation for the upgraded camera system is available from Ventico at request from [enquiries@ventico.com.au](mailto:enquiries@ventico.com.au)

New documentation includes:

- New general arrangement of monitor enclosure
- New parts, service and operator's manual
- Installation instructions for upgraded conditioner board (comes with upgrade Kit)

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