

MRLDS-450

Avoiding an Open-Loop Fault Alarm Condition on Power Up

Issue: Avoiding Power Up Into An Open-Loop Fault

The MRLDS-450 Gas Detector by default has the analog output configured to 4-20mA. One of the features of the 4-20mA analog output is to alarm the sensor when an open-loop is detected on the 4-20mA circuit. If the +24VDC power is connected and the circuit is energized, the MRLDS-450 will detect an open-loop fault and alarm if:

- The 4-20mA circuit is not connected before the sensor is powered, or
- A jumper is not installed and tightened onto the analog output terminal block



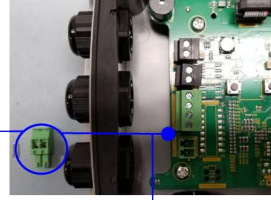
Procedure

To avoid the open-loop fault on power up, the 4-20mA circuit can be deployed (wiring and configured to BMS or other) or install a jumper on the analog output terminal block as follows:

MRLDS-450 Gas Detector with lid removed



MRLDS-450 Gas Detector analog output detail with jumper installed in terminal block



Analog output terminal block removed with jumper and installed jumper

Analog Output

Analog output terminal block installed with jumper



NOTE:

- Ensure that the terminals are tightened down onto the jumper, securing it in place before reinstalling the analog output terminal block.
- Placing a jumper on the analog output terminal block and placing the sensor under + 24VDC power will not harm the sensor.
- If choosing to place the jumper on the analog output to avoid an open-loop fault, remember that the jumper will need to be removed in the future when deploying the 4-20mA circuit. Not removing the jumper will cause the 4-20mA circuit to be unresponsive. i.e., no output

For Technical Support

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Visit our website at copeland.com/en-us/products/controls-monitoring-systems for the latest technical documentation and updates.

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