# Temperature °Controls Pty Ltd

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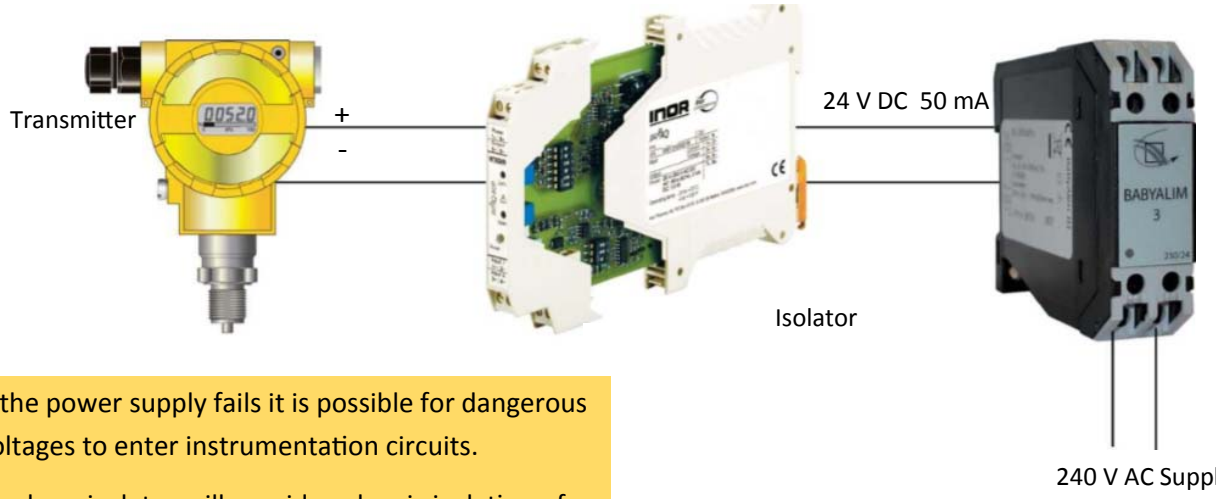
## Inor Loop Isolator Application Notes

## Prevent dangerous voltages from instrumentation circuits

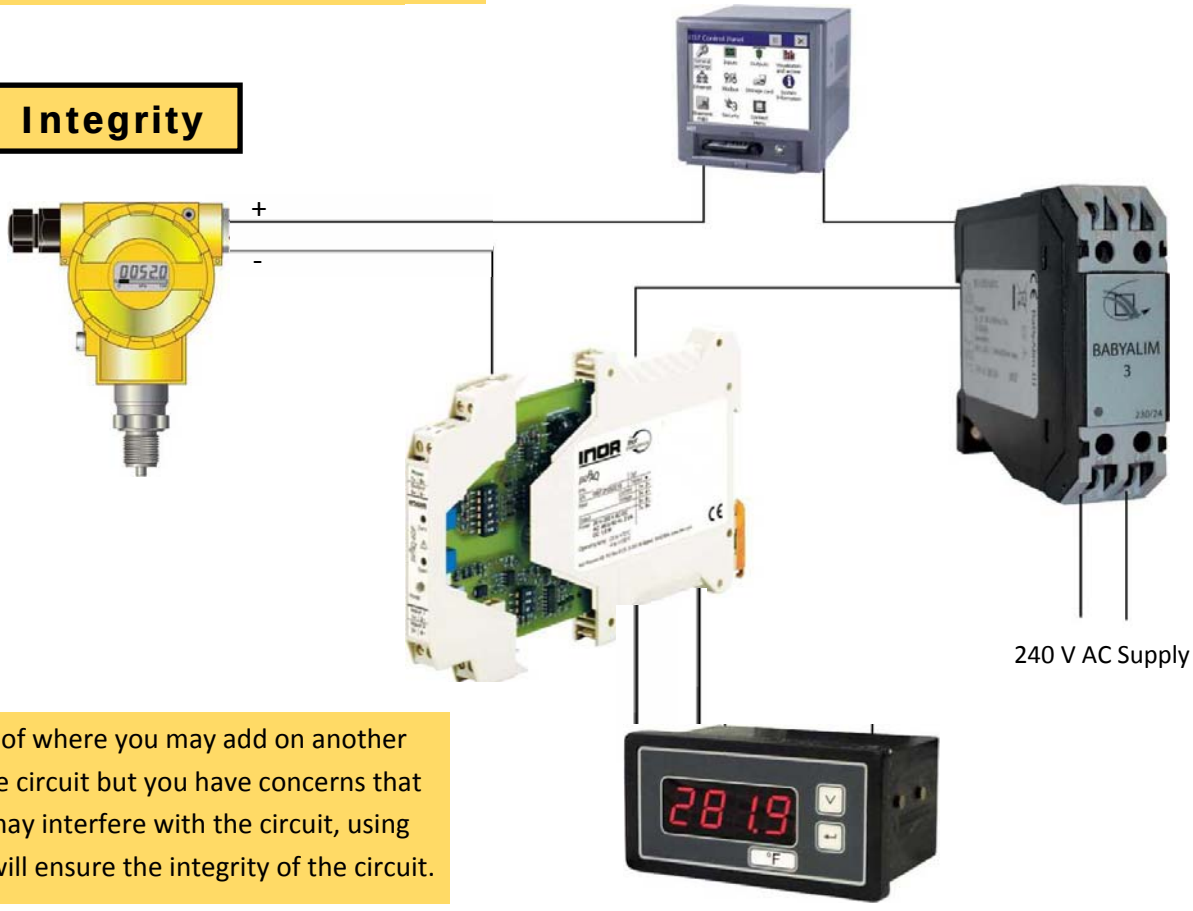
**SD 1955**




If the power supply fails it is possible for dangerous voltages to enter instrumentation circuits.

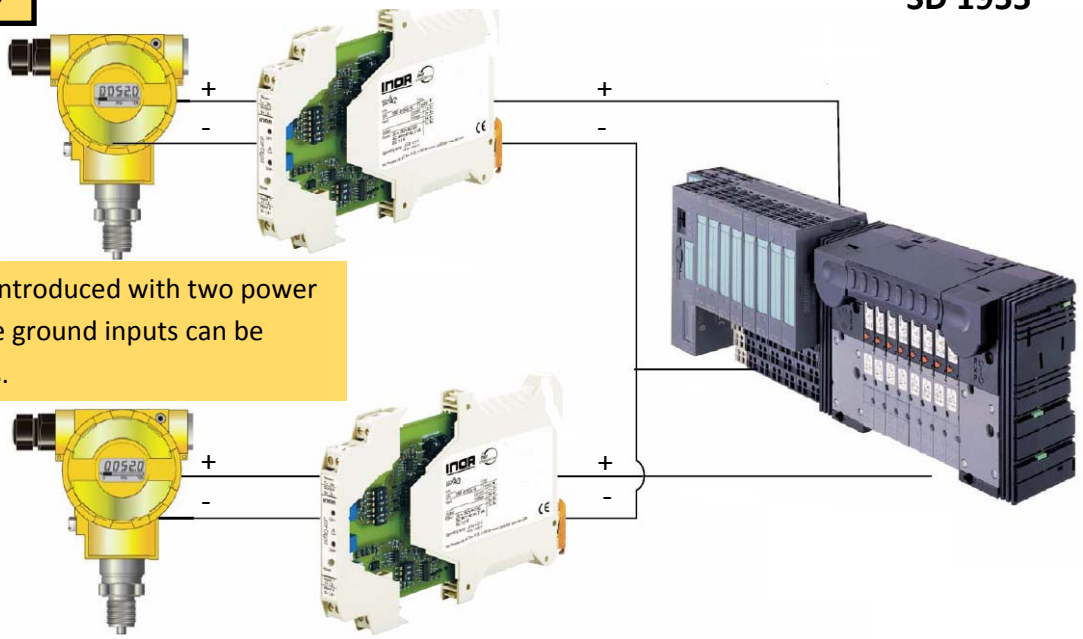
The loop isolator will provide galvanic isolation of 1.5Kv 50Hz

## Circuit Integrity



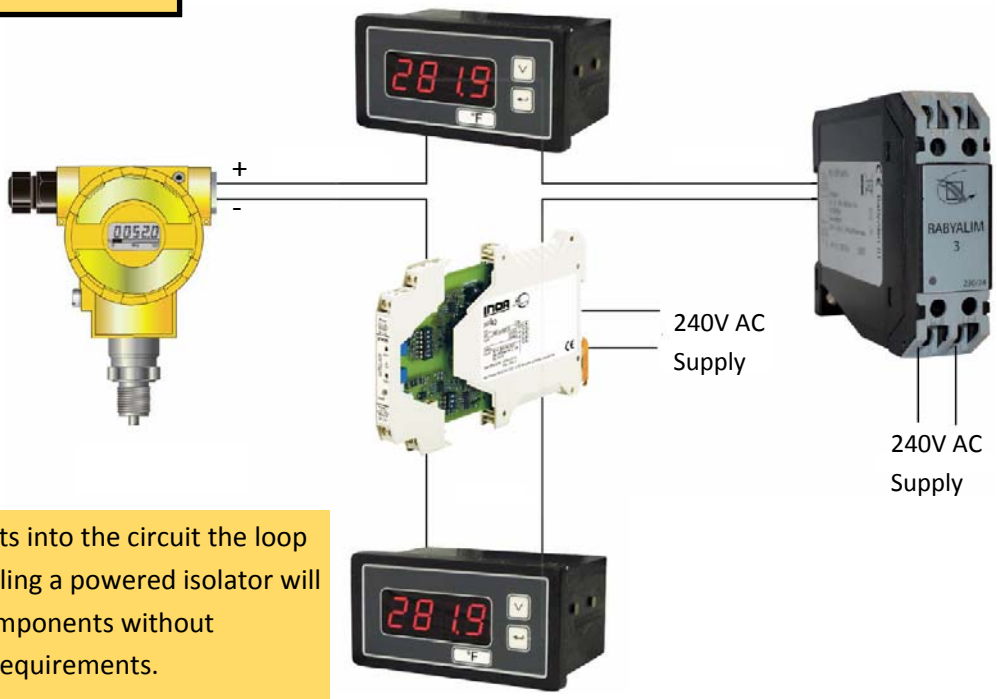

An example of where you may add on another device to the circuit but you have concerns that the device may interfere with the circuit, using an isolator will ensure the integrity of the circuit.

## Common Voltage



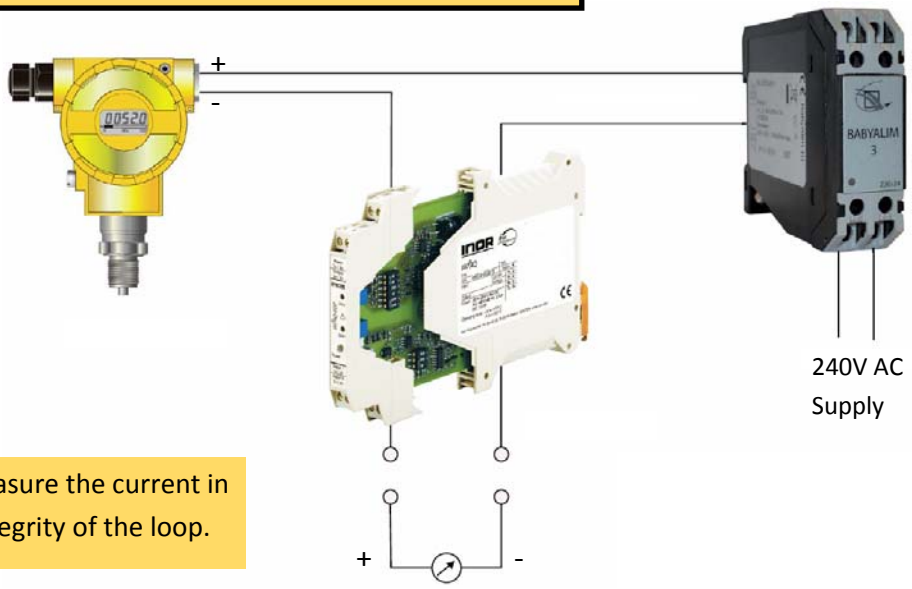

Eliminate errors that may be introduced with two power supplies. The common voltage ground inputs can be isolated from the transmitters.

## Amplifying 4-20mA Loop




If you add too many components into the circuit the loop may become overloaded. Installing a powered isolator will allow you to integrate more components without concerns over the loop power requirements.

## Measure 4—20mA Signal and maintain circuit




An example of where you can measure the current in the loop with out breaking the integrity of the loop.