

# APPLICATION NOTE

Document Title CHQ-Z(I.S.) I.S. Compatible Dual Zone Monitor

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## CHQ-Z(I.S.) I.S. Compatible Dual Zone Monitor

This Application Note covers the CHQ-Z(I.S.) I.S. compatible Dual Zone Monitor.

### Description

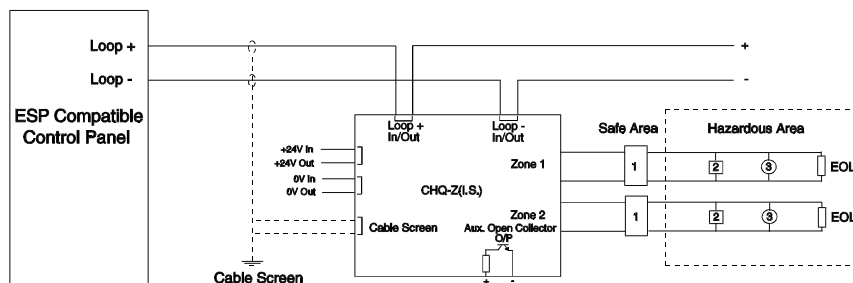
The CHQ-Z(I.S.) is an input monitoring device which connects to the Hochiki ESP analogue system. It is capable of monitoring two zones of intrinsically safe Hochiki detectors through an intrinsically safe isolator. The unit also provides an auxiliary open collector transistor output, which can be used for local control via a suitable circuit if supported by the Control Panel. The module has been designed for easy installation and contains two connector blocks for termination of the field wiring. The CHQ-Z(I.S.) also requires an auxiliary 24VC power supply.

### Installation

The CHQ-Z(I.S.) should be connected to the loop as shown below, the module does not support any line continuity options, therefore, if manual I.S. Call Points are to be interfaced to the CHQ-Z(I.S.) then these should be connected first. Detectors should be connected to the CHQ-Z(I.S.) in accordance with Hochiki's I.S. certification.

Note:- The CHQ-Z(I.S.) must be installed in the safe area along with the isolator.

The CHQ-Z(I.S.) also requires an auxiliary 24VC power supply.



1 = I.S. Galvanic Isolator  
3 = I.S. Detector

2 = I.S. Manual Call Point (470Ω)  
EOL = 10KΩ Resistor

### Compatible Isolator Types

The CHQ-Z(I.S.) must be used only with the Galvanic Isolator types listed below:-

MTL3043, 4061, 5061  
KFDO-CS-Ex1.51, KFDO-CS-Ex2.51, KFDO-CS-Ex1.51P,  
KFDO-CS-Ex2.51P

Note:- Zener Barriers must not be used.