



Dresser Chatterbox-e LED Pulse Isolation Unit

Model 123 Opto-Isolation Unit

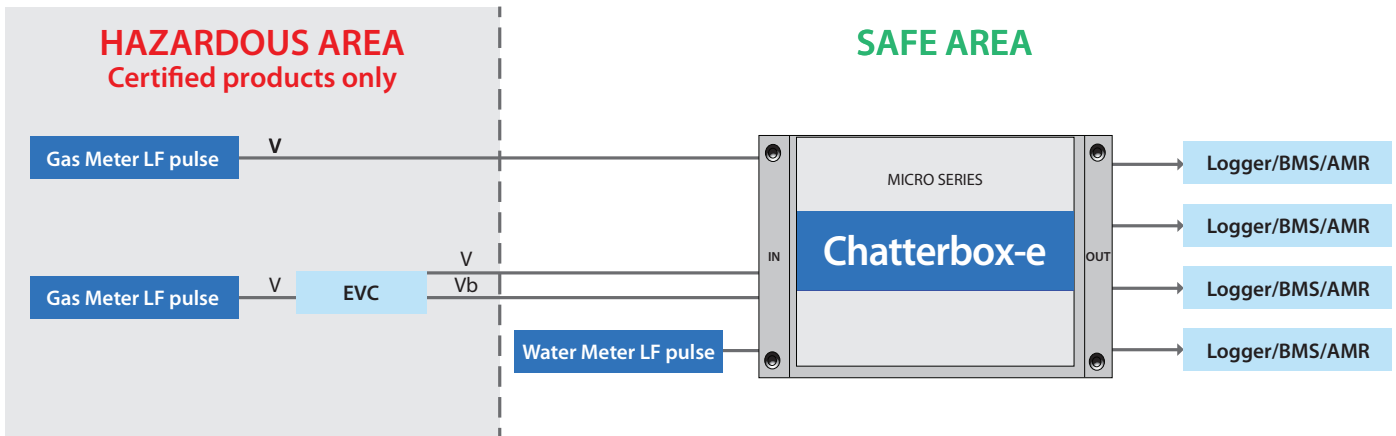
Building on the success of the Chatterbox-e series, the Model 123 Dresser Utility Solutions Chatterbox-e LED offers greater current sinking capability for compatibility with modern AMR and BMS loggers. Configuration has been simplified for the installer by means of a “Push to Test” button. With the button held during an input pulse, LEDs operate for each active output channel confirming the correct switch configuration for the desired output channel(s).

The Dresser Utility Solutions Chatterbox-e Isolation Unit provides the necessary safety isolation between equipment generating pulses in a hazardous area and non intrinsically safe equipment located in a safe area, such as third party loggers/BMS/AMR devices.

The Chatterbox-e consists of four independent circuits that transform high impedance or simple Low Frequency contact pulses from the gas meter or volume converter into isolated volt-free current sinking pulses to the non-hazardous area. One input can be connected to up to four isolated output circuits by internal switch selection.

Battery powered for typically 10 years of maintenance free operation, it's suitable for installation in remote and rugged environments without the need for an external power supply.

- 10 year battery life from replaceable lithium cells; two Tadiran SL750, 1/2 AA
- Four channels as standard
- Channel selection via switches
- Two output cable glands promote ease of installation.
- ATEX Certified Intrinsic Safety
- UKCA and CE badged
- Weatherproof cast aluminum housing rated to IP66 (equivalent to NEMA 4x) offers flexibility of installation
- Compliance to IGEN/GM/7A electrical connections for gas metering equipment and USA Article 500 of the National Electrical Code, ANSI/NFPA-70 (NEC)™
- Opto-isolation for reliability and reduced power consumption
- Simple mechanical and electrical installation
- Single or multiple outputs from single input
- Push to test LED function to confirm channel selection
- No converter or meter setting required. The Chatterbox-e provides a 200ms isolated output pulse when a pulse is received from the meter or converter.



Inputs

Current sinking pulse outputs from converters, such as the Dresser Micro Converter.

Volt-free LF (low frequency) contact closures from a meter. Contact debouncing as standard.

Outputs

Each open drain output can accept 1.5 to 30 vdc from the third party Logger/BMS/AMR. During operation a 200ms pulse sinks current, thus dropping voltage to a logic low level such that an "on" signal is registered by the third party logger/BMS/AMR device.

Enclosure

Weatherproof aluminum enclosure IP66 (equivalent to: NEMA 4x) rated suitable for wall or panel mounting. Size: 160mm wide x 120mm high over glands x 62mm deep.

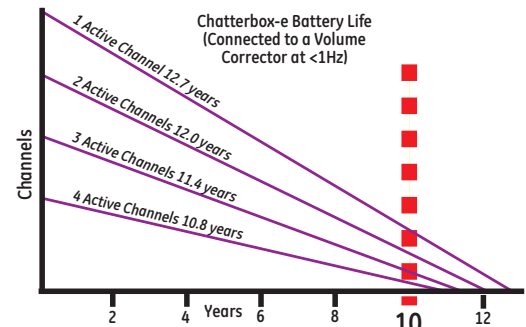
Intrinsic Safety

Baseefa 03ATEX0429 II (1)G [Ex ia Ga] IIC
BAS21UKEX0072

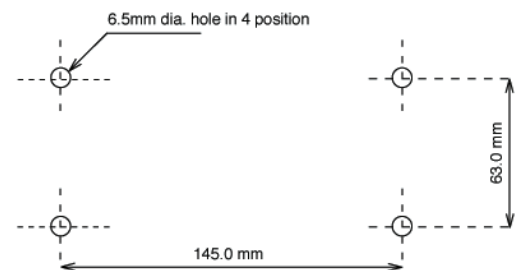
The Chatterbox-e must be installed in a safe area and is suitable for connection to equipment in hazardous areas Zone 0, 1 or 2.

Battery Life

Two Tadiran SL750, 1/2 AA cells provide an estimated life in excess of 10 years based on all four channels operating at <1Hz.



Fixing Dimensions (Standard enclosure)



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