

Dresser Chatterbox-e Model 103 Opto-Isolation Unit



The Chatterbox-e unit provides the necessary safety isolation between equipment generating pulses in the hazardous area and non intrinsically safe equipment located in the safe area.

Opto - isolators provide four isolated volt-free contacts from low frequency pulses generated by Gas Meters or Volume Correctors installed in the hazardous area.

Chatterbox-e operates from a self contained power supply lasting in excess of 10 years and is therefore suitable for installation in remote and difficult environments without the need for an external power supply.

The unit comprises of four independent circuits that transform high impedance pulses, or volt-free contact closures into isolated volt-free contact closures. One input can be connected to up to 4 isolated output circuits by using internal switches.

- 10 Year battery life from standard cells; two 1/2 AA lithium. “Virtual power for life”.
- 4 Channels as standard.
- Channel selections via switches.
- Two output glands as standard promotes ease of installation when more than one system is to be connected to the Chatterbox-e.
- ATEX Certified Intrinsic Safety.
- Weatherproof cast aluminum housing rated to IP66 (equivalent to NEMA 4x) offers flexibility of installation.
- Compliance to UK Institute of Gas Engineers Editions 1 & 2 “Electrical Connections to Gas Meters” and USA Article 500 of the National Electrical Code, ANSI/NFPA-70 (NEC)”.
- Opto isolation increases reliability and reduces power consumption.
- Simple mechanical and electrical installation.
- Single or multiple outputs from single input.
- No Corrector or Meter setting required. As soon as the Chatterbox-e receives a pulse, a 220ms isolated output pulse is generated.