



EFG-420.1 DATA CONVERTERS



- ☀️ Intrinsically safe.
- ☀️ Installs in minutes.
- ☀️ Tamper resistant, with NO accessible buttons.
- ☀️ Diagnostic capabilities to assist during installation, programming, and operation.

General Product Description

The EFG-420.1 connects to the EFG-8000 gauge data output. You can perform a wide variety of monitoring or control functions when connecting a EFG-420.1 to your gauge. Each converter monitors one gauge. The data circuit is opto isolated and polarity sensitive. Each converter is powered externally by 12-24v AC or DC. This device requires your 4-20mA current loop to be powered by your equipment sensing the current level. Each converter is preset to 5mA = zero gallons to full capacity of your tank = 15mA. Setting your receiving equipment to read zero gallons to full over the 10mA range will enable your equipment to track the gallons in the tank. Four separate relay circuits are provided with four "C" outputs to connect to your control circuits in various ways. There are several options on how the relay outputs may be configured. Normally the upper most relay is set for the High Level alarm, next the Low Level alarm, then the Interstitial Level alarm, last is the Data Error alarm activated if communication is lost with the gauge.

This device is provided with a back plate for mounting inside your control equipment. Both ends of the enclosure have removable connectors. Inside the enclosure is a set of push buttons, activation indicator LED's for each of the 4 relay circuits, a data receiving indicator LED, and a power supply indicator LED for trouble shooting. This device is not to be installed outside of a control cabinet.



- ☀️ Installation made simple by the elimination of having to set Zero and Span on the 4-20 circuit. Due to the nature of the device, Zero is preset at 5ma and full tank capacity is set at 15ma. Any milliamp reading below or above the 5-15 is an error.
- ☀️ Four separate form "C" relay circuits are programmed to change state as various alarms conditions are sent from the gauge.
- ☀️ Device is powered by 12-24v AC or DC.
- ☀️ Separate CPU and Relay power LED indicators.
- ☀️ See back of page for sample field wiring