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TECHNICAL SPECIFICATION

Simplex TC-81 Fuel Flow Commander

The following specifies and describes a Simplex Model TC-81 Fuel Flow Commander, control system for use in a diesel fuel system. This system consists of the following principal elements:

1. NEMA-3R wall-mountable enclosure
2. PLC-based control system
3. Front panel-mounted operator interface
4. Fuel flow transducers (2), shipped loose

The TC-81 Fuel Flow Commander is used to measure and record:

1. Fuel flow to an engine
2. Fuel return from an engine
3. Net fuel consumption

The TC-81 utilizes a variable pulse input as developed by precision flow transducers placed in the supply and return flows to and from an engine. These signals are integrated by the PLC utilizing proprietary Simplex code to develop real-time and historical display and recording of fuel consumption.

A touch-screen operator interface allows programming, display and access to historical data.

Alarm set-points can be established at critical levels. The system can be programmed to record both interval and total fuel consumption.

Features:

1. NEMA-3R wall-mountable enclosure with hinged door
2. UL508 Listing
3. PLC-based
4. Field-configurable
5. Flow transducer with rotary flow indicator
6. 120Vac or 24Vdc input power