

**Model EFMT**

**E**lectronic **F**low **M**eter **T**RANSMITTER

## **OIL MAKE-UP TRANSMITTER FOR ENGINES AND COMPRESSORS**

**The CCT-EFMT Electronic Flow Meter Transmitter is designed specifically to provide a switch closure output to totalize motor and gear oils. Modular and lightweight design make the EFMT the best choice for a reliable method to track oil consumption of engines and compressors**

### **GENERAL**

The Electronic Flow Meter Transmitter contains a reed switch used in all CC Technology products for compressor applications. This device is manufactured to operate with minimum head pressure to enable it to accurately measure oil flow at very low volumes.

Unlike mechanical meters, these units are very small and the entire reed switch is protected from the wear and tear of normal environmental use by a rugged, glass filled, shock resistant, nylon housing. The rubber housing protects the internals from the environment.

### **OPERATION**

As a fluid passes through the metering chamber by entering the inlet port, it forces the internal gears to rotate and exits through the outlet port. Each rotation of the gear displaces a given volume of fluid. Controlled clearances between the gears and chamber wall insure minimum leakage. As the gears rotate, a magnet on each end of the gear activates the reed switch to send a pulse to a PLC or digital counter.

The total amount of fluid dispensed from inventory can be checked periodically by the display on the PLC or digital counter.

### **PULSE COUNTS:**

100 - PULSES EQUAL ONE LITER  
211.34 - PULSES EQUAL ONE PINT  
1,690.7 - PULSES EQUAL ONE GALLON

### **CAUTION**

The CCT-EFMT meter is designed specifically to give the operator a tool to accurately monitor oil consumption of compressors and engines. It will reliably dispense motor oils (S.A.E. 5-50), gear oils (S.A.E. 80-240), transmission fluids and engine coolants (Ethylene glycol). If other fluids such as water based fluids are to be monitored please contact CC Technology. It is extremely important that all fluids be properly filtered before they are introduced into the meter. Foreign particles will cause inaccuracy as well as possible malfunction of the meter. Warranty is void if trash or foreign material of any kind is detected in the meter.



### **FEATURES**

- **Oval Gear Driven Meter**
- **Leak Proof, Magnetic Drive**
- **Rugged Corrosion resistant Enclosure**
- **Hermetically Sealed Moisture Resistant Reed Switch Output - 120 VAC/DC@ 10 Watts**
- **Only Two (2) Parts to Reduce Maintenance Costs**
- **Accuracy to  $\pm$  0.75%**
- **Minimum Three Year Battery Life**
- **Compatible With Electronic Control Panels and Counters with Scaling capabilities**
- **Two Year Warranty**

  
**LUBRICATION DIVISION**  
**Protecting Compressors**  
**World Wide**

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**Model EFM**

**CC Technology**  
**ELECTRONIC FLOW METER**

**E**lectronic **F**low **M**eter  
**Information**

## **OIL MAKE-UP METER FOR ENGINES AND COMPRESSORS**

**The CCT-EFM Electronic Flow Meter is designed specifically to totalize motor and gear oils. Modular and lightweight design make the EFM the best choice for a reliable method to track oil consumption of engines and compressors**

### **GENERAL**

The electronic register module contains a microprocessor board powered by a lithium battery with an expected life of 3 to 5 years depending on use. It can be programmed to dispense in pints, quarts, liters, or gallons and will totalize in liters or gallons. A calibration factor and unit of measure are programmed during factory test. Unlike mechanical meters, these units can be electronically re-calibrated in the field when necessary. A 5-digit liquid crystal display, accurate to the second decimal place, shows the exact amount of fluid dispensed. The entire register module is protected from the wear and tear of normal environmental use by a rugged, glass filled, shock resistant, nylon housing. The rubber housing protects the internals from the environment.

### **OPERATION**

As a fluid passes through the metering chamber by entering the inlet port, it forces the internal gears to rotate and exits through the outlet port. Each rotation of the gear displaces a given volume of fluid. Controlled clearances between the gears and chamber wall insure minimum leakage. As the gears rotate, a magnet on each end of the gear activates the microprocessor in the register.

The total amount of fluid dispensed from inventory can be checked periodically by depressing the TOTAL button. If the units dispensed are pints, quarts, or gallons, the totalizer will read gallons on the display. If the unit is programmed in liters, the totalizer will display in liters.

### **CAUTION**

The CCT-EFM meter is designed specifically to give the operator a tool to accurately monitor oil consumption of compressors and engines. It will reliably dispense motor oils (S.A.E. 5-50), gear oils (S.A.E. 80-240), transmission fluids and engine coolants (Ethylene glycol). If other fluids such as water based fluids are to be monitored please contact CC Technology. It is extremely important that all fluids be properly filtered before they are introduced into the meter. Foreign particles will cause inaccuracy as well as possible malfunction of the meter. Warranty is void if trash or foreign material of any kind is detected in the meter.



### **FEATURES**

- Oval Gear Driven Meter
- Large LCD Display
- Two Decimal Point Precision
- Push Button Calibration
- Totalizes in Gallons or Liters
- Delivery in Pints, Quarts, or Gallons
- Accuracy to  $\pm 0.3\%$
- Minimum Three Year Battery Life
- Low Battery Indicator
- Replaceable Battery
- Battery Shelf Life-10 Years



**CC Technology "proflo" Lubrication Systems**  
**"PROTECTING ENGINES & COMPRESSORS WORLD WIDE"**