

Electronic Rate of Flow Register

Electronic Rate of Flow Indicator/Totalizing Register (E-ROFI - II)

Description

The Electronic Rate of Flow Indicator/Totalizing Register (E-ROFI) is a permanently, hermetically sealed, battery powered unit utilizing solid state electronic circuitry. The E-ROFI is intended for use on Sensus propeller meters. Twin six-digit liquid crystal displays (LCDs) indicate rate of flow data and accumulate totalization simultaneously at the meter location.



Features

A built-in test feature allows the rate of flow LCD to be temporarily used as a high resolution totalizer for field testing by simply placing a magnet near the word "rate".

APPLICATIONS

The E-ROFI registers are used to display volume and flow rate data from a Sensus propeller meter. The indicator/Totalizing Register is mounted on the Sensus propeller meter head assemblies using the Sealed Register type adapter plate assemblies.

INSTALLATION ON METER

For retrofitting, the register can be supplied with the sealed register adapter plate assembly and proper calibration change gears as required by the particular application. Instruction sheet no. PM-974 will be provided.

When ordering for retrofitting an exiting meter, specify the serial number of the meter and type of registration currently present and desired type, such as: gallon, cubic feet, cubic meter, or Imperial gallons.

ENVIRONMENTAL CONSIDERATIONS

Flooded pits and high humidity atmospheres will not affect the operation of the device if properly installed.

PULSE OUTPUT REQUIREMENTS

For pulse (switch closure) requirements use the HET (Hall Effect Transmitter). See sheet (Requires adapter plate assembly).

See Installation Instructions for Propeller Meter Conversion to a Sealed Register.

SPECIFICATIONS

POWER	Internally powered by a "C" size lithium battery. Recommended register replacement period is five years after in installation.
DISPLAY TYPE	Extended temperature range LCDs with 0.22 inch tall characters.
TOTALIZER	6 digit accumulated total, non-resettable.
FLOW RATE	2 or 3 digits based on input frequency. Functions as a high resolution totalizing counter while external magnet is applied to register dial face lens (See Features).
BATTERY DISPOSAL	Must be in accordance with applicable local, state and federal regulations.
ENVIRONMENT	Temperature, operating : -20°F to 150°F

Flow Rate Display Update Time

FLOW RATE	TOTALIZER	UPDATE TIME (Seconds)
GPM	Gallon	50
CFS	Cubic Feet	83
M3/Min.	Cubic Meters	50
IGPM	Imperial Gallons	50
LPS	M3	83