RT40
RATE / TOTALIZER

PRODUCT MODELS

Model No.	Description
RT401D0FA	Universal Mount - aluminum housing
RT401D0MA	Integral Meter Mount - aluminum housing
RT406D0FM	GRN - Universal Mount - glass-reinforced nylon housing
RT406D0MM	GRN Integral Meter Mount - glass-reinforced nylon housing

APPROVALS / WARRANTY

CE

2 YR METER WARRANTY

The **FLOMEC® RT40 Rate / Totalizer** is a perfect choice for users who require a simple display to read flow rate or totalized volume from a flow meter. The configurable digital output (pulse or alarm) also makes the RT40 well-suited to use with a PLC or a remote data logger.

The RT40 is a cost-effective solution for economic operations, seamlessly integrating with FLOMEC Oval Gear, Turbine and Insertion flow meters equipped with a pulse output. This streamlined compatibility enhances data analysis at a glance, eliminating the necessity for intricate systems in simple installations.

The RT40 also features a large dual-line backlit LCD, which provides optimal readability from a distance or in low-light conditions. Robust aluminum or glass-reinforced nylon enclosure options make the product suitable for heavy-duty use in mine sites, truck installations, or in any industrial setting.

FEATURES / BENEFITS

- Economic and robust LCD display suitable for mining, truck, or industrial installations
- Large backlit LCD screen*
- Battery or externally powered; battery life span is five years under ideal conditions
- Robust IP66 (NEMA 4) Aluminum or IP66/67 glass reinforced nylon enclosures
- Configurable digital output* can be set as a pulse output for retransmitting flow readings to an FMS, PLC, or data logger
- Digital output can be set as a flow alarm to notify system faults, such as insufficient lubrication to a bearing
- Five-point linearization allows significant improvement in accuracy for most positive displacement or turbine flow meters
- Quadrature input allows measurement of bi-directional flow (with suitable flow meter)
- Universal inputs compatible with most positive displacement or turbine flow meters
- Intuitive user experience with in-built diagnostics for faster commissioning and troubleshooting of issues

**External power required.*

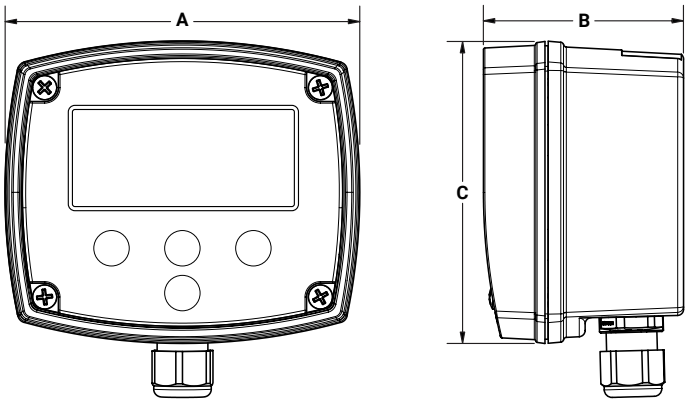
RT40
RATE / TOTALIZER

SPECIFICATIONS

Physical	Glass reinforced Nylon (PA6) with a Polycarbonate lens, Santoprene gasket, polyester decal. Enclosure provides an IP rating of IP65. Optional powder coated Aluminum enclosure
Temperature	Operating Temperature Range is -22°F - +176°F (-30°C - +80°C)
Electrical Entries	3 entries - M16 x 1.5
LCD Display	Large dual line LCD with 6 characters 17 mm high on top line, 8 characters 7 mm high on bottom line. *Backlight available with external DC power.*
Units	Total units are selectable for Litres, Cubic Metres, US Gallons, Imperial Gallons, Millilitres (Cubic Centimetres), Quarts, Fluid Ounces, Cubic Feet, Barrels, Kilograms, Pounds, or Custom. Units of mass are configured by setting a fixed specific gravity value in the configuration menu.
Input Signals	Two channel pulse/frequency input compatible with standard pulse signals or quadrature signals from most flow meters.
Compatible Sensors	Reed Switch - 120 Hz maximum NPN (hall effect sensor) - 2kHz maximum Variable Reluctance Coils (Turbine Flow meters) - 2kHz maximum Weigand Sensors (voltage pulse signals) - 2kHz maximum Minimum signal amplitude for Coil signals is 15mV pk-pk
Sensor Power	12V regulated sensor supply is available with external DC power applied.
Battery Power	AA (14505) 3.6V Lithium Thionyl Chloride Battery (Expected battery life under ideal conditions is 5 years.)
External DC Power	Regulated 12V - 30V DC (Typical current draw on external power is 100mA across this voltage range.)
Digital Output	NPN transistor output, 30V DC / 1A maximum/100 Hz maximum Digital output is configurable as Scaled Pulse, Unscaled Pulse, High Alarm Low Alarm, or High/Low Alarm.

DIMENSIONS

Dimension "A"	Dimension "B"	Dimension "C"
4.5 in. (11.43 cm)	2.6 in. (6.6 cm)	3.9 in. (9.9 cm)



Wichita · Sydney
GREAT PLAINS INDUSTRIES

North or South America: FLOMECmeters.com | **Product Support:** 888-996-3837 | FLOMECtech@gplains.com
Australia: FLOMEC.com.au | **Product Support:** +61 2 9540 4433 | info@flomec.com.au
IND-1234 Rev A **EN** 3/26