



## PRODUCT CONFIGURATION

### PRODUCT IDENTIFIER 1

**RT14** = Oval Gear Meter

### ELECTRICAL ACCESS 2

**1** = M20 x 1.5 mm female threaded conduit entry ports

**2** = ½ inch NPT female threaded conduit entry ports

### FLOW INPUT TYPE 3

**D** = Digital (pulse or frequency)

### POWER SUPPLY 4

**0** = Self-powered (battery) or regulated 12-30V (dc)

### HOUSING TYPE 5

**FM** = Universal mount (field or panel) – GRN housing

**MM** = Integral meter mount – GRN housing\*

\* Only order MM when retro fitting an instrument to OM series pulse meters

### ELECTRICAL OPTIONS 6

**-I** = Intrinsically safe IECEx/ATEX (EXia IIB T4)

--->>>> **1 2 3 4 5 6**  
RT14 1 D 0 FM -I

## RT14 FLOW RATE TOTALIZER

The RT14 is a fully programmable self-powered flow rate totaliser specifically designed for computing and displaying flow rates and totals from flow meters with pulse, sine wave or frequency outputs. The instrument displays resettable (batch) total, accumulated total and instantaneous flow rates in engineering units as programmed by the user. Flow meter inputs: suitable use with most pulse/frequency output meters such as reed switch, coil, voltage pulse (Wiegand), NPN and PNP.

## CONTROL OUTPUTS

Scaled and unscaled pulse outputs allow transmission of accumulated flow data to remote control systems. Flow alarms are available to protect flow systems from flow rates that are 'high', 'low', or both, and an analogue 4-20mA signal offers flow rate monitoring and control by accurately transmitting flow rate readings from the flowmeter to your PLC or PID control system.

## FEATURES / BENEFITS

- Battery, external DC, or loop powered
- Easy to read backlit LCD display
- Robust IP66/67-NEMA4X universal mount glass reinforced nylon enclosure with rubberized buttons and polycarbonate lens
- Large selection of engineering units for flow rate and total
- Ten point linearisation
- 4-20mA analogue output according to flow rate
- Flow alarm for high, low or high/low
- Scaled pulse output according to accumulated total
- Simple flow chart touch key programming
- Non volatile memory, long battery life
- Flowmeter and pipe mount kits available
- Broad operating temperature range

## PROGRAMMING

Simple PIN protected flow chart programming with English prompts guide you through the programming routine greatly reducing the need to refer to the instruction manual.

## SPECIFICATIONS

|                             |                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Display                 | 8 digit alpha-numeric LCD display with 12 mm characters with backlight*                                                                               |
| Instantaneous Flow Rate     | 8 digit to 3 decimal points                                                                                                                           |
| Engineering Units Displayed | Liter, mL, Gallon, Quart, Cubic Meter, Pounds, Kilograms or Nil                                                                                       |
| Input Types                 | Reed, NPN/PNP, mV sinewave (Turbine flowmeters), Weigand Sensors (voltage pulse)                                                                      |
| Input Frequency             | 1.2 kHz (NPN/PNP), 2 kHz (Coil inputs), 120 kHz (Reed)                                                                                                |
| Input Scaling Range         | 0.0001 ~ 9999999.9999 with 4 floating points                                                                                                          |
| Linearisation               | 10 point correction                                                                                                                                   |
| Pulse Outputs               | One selectable digital output for scaled pulse, unscaled pulse, high, low or high/low alarms                                                          |
| Analogue Output             | 12 bit 4-20mA ( $\pm 0.05\%$ FS at 25°C)                                                                                                              |
| Operating Temperature       | -22°F - +176°F (-30°C - +80°C)                                                                                                                        |
| Power Sources               | AA 3.6V Lithium Thionyl Chloride Battery, external DC powered or loop powered (12 - 30V (dc))                                                         |
| Enclosures                  | High impact glass reinforced Nylon (PA6) with a Polycarbonate lens, Nitrile O-Ring seals and Polyurethane gaskets, providing an IP rating of IP66/67^ |
| Mounting                    | Meter & stem mount, wall, pipe or panel mount^                                                                                                        |
| Approvals                   | Intrinsically Safe - IECEx / ATEX (optional)<br>Ex ia IIB T4 Gb (-30°C <Ta <+70°C)                                                                    |

\* Backlight possible when connected to external power

^ Panel mount seal kit required to maintain IP66/67 rating when separating front and rear housing for mounting

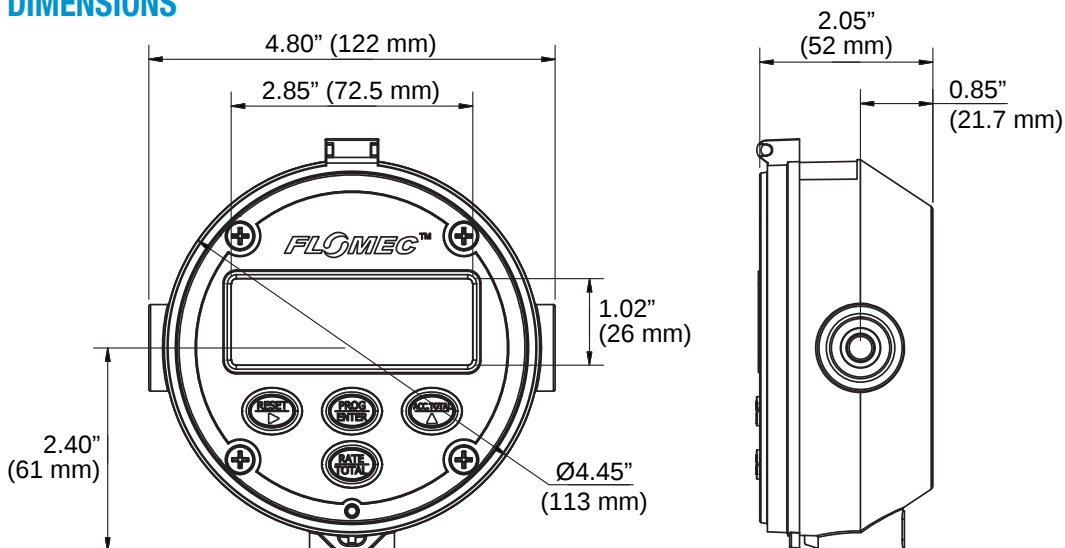
## ACCESSORIES

|         |                      |
|---------|----------------------|
| 1522001 | Wall Mount Kit       |
| 1522002 | 2" Pipe Mount Kit    |
| 1504003 | Panel Mount Seal Kit |

## APPROVALS



## DIMENSIONS



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