

RT12 Self-Powered Flowrate Totalizer



FLOMEC® LCD display RT12 is a fully programmable self-powered flowrate totalizer specifically designed for computing and displaying flowrates and totals from flowmeters with pulse, sine wave or frequency outputs.

The instrument displays resettable (batch) total, cumulative total and instantaneous flowrate in engineering units as programmed by the user.

MODEL CODE

RT12 = Flow rate totaliser with 4-20mA, scalable pulse & alarm outputs, dual flow inputs

ELECTRICAL ACCESS

- 1** = M20 x 1.5mm (M16 x 1.5 for Aluminium housing) female threaded conduit entry ports
- 2** = 1/2" NPT female threaded conduit entry ports (Not available on aluminium housing)

FLOW INPUT TYPE

D = Digital (pulse or frequency)

POWER SUPPLY

0 = Self-powered (battery) or regulated 8-24 VDC

HOUSING TYPE

- FM** = Universal mount (field or panel) GRN housing
- MM** = Integral meter mount - GRN housing*
- FA** = Universal mount (field or panel) aluminum alloy
- MA** = Integral meter mount - aluminum alloy*

*Only order MA/MM when retro fitting instrument to OM Series pulse meter

ELECTRICAL OPTIONS

- R** = Control Output relay board interface with two SPDT relays
- I** = I.S. Intrinsically safe to Exia IIB T4 - IECEX & ATEX approved

MECHANICAL OPTIONS

P = Facia protector - 3mm clear polycarbonate protection plate (FA, MA only)

RT12+ 1 + D + 0 + MA + I + P ← (Sample Model Number)

Features and Benefits:

- ✓ Self or external powered, 8-digit LCD total & 8-digit cumulative totalizer, 5-digit rate display
- ✓ Robust IP66/67~NEMA 4X universal mount
- ✓ Aluminium/GRN field & panel mountable housing
- ✓ Scaled pulse, 4-20mA (Loop Powered) Output, Dual flow inputs (A+B, A-B, A÷B), multi point linearization of flow input or frequency inputs
- ✓ High & low flow alarms & Low Frequency cutoff
- ✓ PIN protected programming
- ✓ Simple flow chart touch key programming
- ✓ Reverse polarity protection
- ✓ Non volatile memory, Long battery life
- ✓ Relay board with SPDT outputs (Optional)
- ✓ Optional Intrinsically safe version to Exia IIB T4 version (IECEX & ATEX approved) FM, MM only

RT12 - SPECIFICATIONS

Displays:	Large backlit 8-digit numeric display with LCD character, 8-digit reset cumulative totalizer, 5-digit rate display
Memory:	All programmed and accumulative data is stored permanently in non-volatile memory
Temperature Range:	-4° F to +176° F (-20° C to +80° C)
Signal Input:	Pulse/frequency Input with reed switch Hall Effect, Voltage, Current & Coil, dual inputs (A+B, A-B, A÷B)
Pulse Output:	NPN transistor, Scalable (20hz, 100mA max.)
Rate Outputs:	4-20mA into 750 ohms@24Vdc, NPN/PNP solid state & relay options
Linearisation:	10-point correction
Intrinsic Safe Option:	Exia IIB T4 (IECEX / ATEX)
Battery Power:	Life expectancy 5 years (Unit draws about 70µA under battery). <i>Battery life reduces when rate is displayed and power is not connected.</i>
External Power:	Regulated 8-24VDC x 50mA min (Reverse polarity protected)
Configuring:	PIN protected data entry
Protection Class:	IP66/67 (NEMA 4X) 3 x M16 x 1.5 female conduit entries
K-factor Range:	Scale factor i.g. pulses/litre, gallon, etc. programmable range 0.001 - 999,999.999
Engineering Units:	Selectable Ltr, gal, m³, kgs, lbs (total)/sec./min./hr or day (rate)