The Intrinsically Safe 202Di has an LCD display of flowrate and flow total. It takes the output from flowmeters and can be used for local or remote indication.

Optional Features
1. Analogue 4-20mA output
   An optional two wire loop powered 4-20mA output is available for transmitting to other instruments or control equipment. It is scaleable to your requirements and provides a fast response to changes in flowrate. The operating power is drawn from the 4-20mA loop so that the batteries will last indefinitely.

2. High and low flow alarms
   Two flow rate alarms are available for monitoring the flow. The output will trigger when the flow rises above or falls below the high and low alarm levels. This option requires a DC power supply.

3. Pulse Output
   In place of the high alarm option, scaleable pulse output is available for transmitting to remote instrumentation. This option requires a DC power supply.

Application
The 202Di Rate Totaliser is designed to display the flow rate and total of your process liquid. You can use it for monitoring, controlling, dispensing, blending or filling of any liquid when used with a wide variety of flowmeters. The battery powered version is ideal for areas where a power supply is not available.

Operation
The flowrate and resettable total are displayed simultaneously. The 202Di also stores a non resettable total to monitor long term consumption.

Setup
The rate and totals can be displayed in any engineering units, for example litres per minute and barrels. The setup is easy via the front keypad and it can be preset for your requirements.

Installation
The 202Di can be mounted directly on to your flowmeter, wall mounted or pipe mounted. Cables are installed via waterproof cable glands.

Easy to use ✓
Quick and easy to setup
Preset to your requirements
Displays rate, total & accumulated total

Optional 4-20mA output ✓

Optional high & low alarms ✓

ATEX approved Intrinsically Safe ✓

Highly accurate ✓
Improve product quality
Reduce waste and save money

Versatile ✓
Works with most flowmeters
Waterproof enclosure
Mounts on the pipe, wall or flowmeter
Battery or DC powered

Constructions
The instrument is housed in a polycarbonate enclosure that is completely watertight.
202Di Rate Totaliser

Specifications

- **Display:** LCD which is continuously powered
- **Resettable total:** 7 digits 10mm high
- **Accumulated total:** Displayed when the ACCUMTOT button is pressed
- **Rate:** 4 digits 8.5 mm high
- **K-factor:** The pulses per unit of measurement (e.g., pulses/litre) is programmable in the range 0.0000001 to 999,999
- **Decimal points:** Decimal point positions are selectable for both rate and total
- **Timebase:** Rate can be displayed in units per second, minute, hour or day
- **Frequency range:** 0.01 to 5 kHz
- **Signal type:** Switch settable for sinewave (15mV peak to peak min), open collector, reed switch or pulse.

Batteries

- **Type:** Two lithium battery packs
- **Battery life:** Battery life is dependent on the percentage of time that the instrument is totalising flow.

<table>
<thead>
<tr>
<th>Time Totalising</th>
<th>Typical Battery Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% of the time</td>
<td>5 years</td>
</tr>
<tr>
<td>50% of the time</td>
<td>3 Years</td>
</tr>
<tr>
<td>Continuously</td>
<td>2 Years</td>
</tr>
<tr>
<td>4-20 mA option installed</td>
<td>indefinitely</td>
</tr>
</tbody>
</table>

4-20mA Option

- **Scale:** The 4mA and 20mA points are selectable
- **Accuracy:** 0.1% of span
- **Update Time:** 0.5 seconds
- **Connection:** Two wire
- **Loop Power Supply:** 9-28V dc

DC Power & Flow Alarms / Pulse Output Option

- **Outputs:** Two open collector outputs are available for high and low flow alarms or pulse output and low alarm.
- **Switching power:** 200mA. 30V DC Max
- **DC power input:** 9-28V at 4mA

Physical

- **Temperature:** -20°C to 60°C
- **Mounting:** Universal mounting bracket supplied for mounting on wall or panel.
- **Mounting options available:**
  1. Pipe mounting kit to fix the unit on to a pipe.
  2. Adapter for mounting the instrument on to flowmeters.
- **Protection:** Sealed to IP67
- **Cable entry:** Via cable glands.

Hazardous Area Approval

- **ATEX II 2G EEx ia IIB T3**
- **Maximum temp.** 60°C
- **Max input parameters for certified coils:**
  - \( U_o = 10.0 \text{ V} \)
  - \( L = 0 \text{ mH} \)
  - \( I_0 = 9.0 \text{ mA} \)
  - \( U_i = 24\text{ V} \)
  - \( C_{\text{ext}} = 60 \text{ µF} \)
  - \( I_i = 20 \text{ mA} \)
  - \( L_{\text{ext}} = 1.5\text{ H} \)
  - \( P_i = 320\text{ mW} \)
  - \( C_i = 0.002 \text{ µF} \)

Dimensions

All dimensions in mm.