Dataflow - 4 to 20mA and Pulse Output Flow Transmitters

Flowmeters

Features & Benefits

- 4 to 20mA output.
- Pulse output available for totalising/batching.
- Works in any plane.
- Accepts reverse flow.
- Maximum flow 150 l/min.
- Negligible pressure drop.
- Pressures up to 10 bar.
- Low cost. Simple to install.
- For use with most liquids.
- Factory calibrated. Accuracy ±2%.
- DIN 43650 plug connection (included).

Specification

**Construction:**
Borosilicate glass tube.
Nitrile seals.
Body - Glass filled nylon.
Rotor and locator - Acetal.
Washers and shaft - Stainless steel.
Rotor tips - Stainless steel.
Max. working pressure: 10 bar oil/water.
**Flow indication:**
Min: 2 l/min.
Max: 150 l/min.
Accepts reverse flow.
**Accuracy:**
±2% FSD.
**Temp range:**
+5°C to +80°C oil.
+5°C to +60°C water.

**Connections:**
1” BSP parallel threads.
**Weight:**
0.7Kg.

Calibration 4 to 20mA:
4mA = 0 l/min,
20mA = 100 l/min.
Calibration pulse output per litre:
‘K’ factors.
Oil = 51.14
Water = 44.25

Electrical details 4 to 20mA:
Supply = 24Vdc.
Pulse output:
Supply = 24Vdc.
(open collector transistor).

Installation Details

Ordering Information

Standard products table

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<th>Product number</th>
<th>Supersedes</th>
<th>Description</th>
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<tr>
<td>DFT980</td>
<td>DFT990</td>
<td>Dataflow Pulse output transmitter</td>
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Dataflow 4-20mA transmitter can be connected to a Digital Display Unit (DDU1001 or DDU1002)

**4 to 20mA On-Site Calibration**

Set your system to zero flow. Connect a multimeter across terminals 1 (+20mA) and 2 (0mA) (Dia. 2). Set the zero to read 4mA on your multimeter (Dia. 1). Set your system to full flow and set the span to read 20mA on your multimeter. (Dia. 1)

Note: Minimum span setting = 30 l/min
Dataflow Compact – Inline Flow Transmitter
Flowmeters

Features & Benefits

- Pulse output signal for flows up to 25 l/min.
- Lightweight and robust.
- Operates in any plane. Simple to install.
- Low cost flow measurement.
- Negligible pressure drop.
- Accepts reverse flow.
- 3/8 BSP male connection.
- Water or compatible clear fluids only.
- Ideal for washing machines, showers and vending machines.

Specification

**Construction:**
- Body: Grilamid – TR55.
- Rotor: 18% PTFE filled nylon.
- Shaft: Stainless steel.
- Retainers: Grilamid TR55.

**Operation:**
- Infra-red.

**Maximum working pressure:**
- 20 bar.

**Pressure drop:**
- Max 0.1 bar at 15 l/min.

**Flow range:**
- 1 to 25 l/min.
  (Accepts reverse flow).

**Calibration:**
- ‘K’ Factor 752 pulses per litre, typical.
  Subject to application.

**Accuracy:**
- ±2% typical.

**Repeatability:**
- ±1%.

**Temperature range:**
- +5°C to +70°C.

**Overall dimensions:**
- 52mm x 29mm x 27mm.

**Weight:**
- 16 grams.

**Connections:**
- 3/8 BSP.

**Cable length:**
- 300mm.

**Power supply:**
- 5 Vdc.

**Output signal:**
- 5 Vdc - square wave

Installation Details

- Red wire +5V supply
- Green wire Output signal
- Blue wire 0V supply

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