# SELEGT Dosing System

# **Select Water Meter**



### **Contents**

# Instructions for Use

| rage             |   |
|------------------|---|
| 2                | Schematic layout  |
| 3                | Description/Installation/Operation  |
| 4<br>4<br>4<br>4 | Accuracy Electrical Supply Flow sensors Water meter total and zero Flow sensor capacities |
| 5                | Snare narts   |







Water meter layout. Connect the flow sensor and power supply as shown.

### **Description**

The Select Water Meter is a device to monitor water flows (in I/hr) and display a water total up to 100,000,000 litres. The water total can be easily reduced to zero by pressing and holding down the Set button for 4 seconds.

### **Installation**

Connect the plug from the flow sensor into the Select Water Meter. Connect the Select Water Meter to either battery or transformer. Choose options from the control screen. If there is a flow of water the H value will be the water flow rate in I/hr, the T value will be the total amount of water that has been recoded since the last time the meter was zeroed.

The Select Water Meter can be powered from a 12V DC battery or via a transformer from the mains electricity supply. Ensure that the Select Water Meter is properly secured to prevent it becoming immersed in water or stock additive solution.

The flow sensor is fitted with standard fittings which will need to be adapted to fit into existing pipe work. Use PTFE tape as necessary to ensure leak-free fitting. Avoid undue strain on the flow sensor during fitting as damage to the sensor may result. The use of a water filter immediately upstream of the flow sensor is recommended. **Ensure flow is in the direction as indicated on the flow sensor.** 

### **Operation**

When the electric supply is first connected, the version of the programming will be shown.

| This is the Welcome screen.  | Select                  |  |
|--|-------------------------|--|
|  | Start Options           |  |
| To monitor a water flow, press Start (the Adjust button).  Press the Adjust button repeatedly until the correct flow sensor number is shown that corresponds with the flow sensor you are using.  Then press the Set button. | Sensor Type 2           |  |
| If you wish to reduce the water total to zero before you start press Yes (the Set button), otherwise press No.   | Zero Water tot?  No Yes |  |
| This is the operating screen. This screen will be shown for 5 seconds while flow data is being obtained.   | 0H<br>Metering          |  |
| This screen shows that the water flow is 635 litres per hour, and the total water flow so far is 21 Litres.  These values will change each 5 seconds as new data is recorded.  | 635H<br>0000000021T     |  |

To return to the Welcome screen, press the Adjust button at any time

If you press the Options button from the Welcome screen, you can choose the language of operation of the water meter, but also a Self-Test Mode:

### **Test Mode**

If the water meter is not reading the water flow, change the N to Y by pressing the Adjust button, then press Set.

Go through the normal set-up and choose the flow sensor number. The Water meter will then issue itself with theoretical flow data with "Test Mode.." being shown each 5 seconds.

If the water meter is now working correctly, it is likely that any operating problems were caused by a blockage in the water flow sensor.

Test Mode will continue for 5 minutes. After the 5 minutes the water meter will revert to normal operation.

**Doser Option** 

Test Mode?N

Reducing the water total to zero can be a useful way of taking a daily total for record purposes. To do this, hold down the Set button for 4 seconds.

### Accuracy

The Select Water Meter is factory set to give accurate readings.

Accuracy is improved if the flow sensor is place in a straight section of pipework away from bends that will increase turbulent flow.

### **Electrical Supply**

The Select Water Meter uses a 12V DC power supply. This can either be supplied from a 12V battery or via a transformer power supply from the mains electricity supply.

A 1A maximum current power supply is recommended.

## **The Water Flow Sensor**

The standard water flow sensor (VTY10) records water flow from 20 litres/hour to 1500 litres/hour. Over 500 electrical pulses are sent from the sensor to the Select Water Meter per litre of water flow. The standard VTY10 sensor will withstand pressures up to 6 Bar. Water flow should be in the direction of the arrow on the sensor.

It is beneficial to install a water filter upstream of the flow sensor.

### **Water Meter Total and Zero**

Note: the maximum quantity of water that is shown on the water total quantity is 100,000,000 litres. After this the meter will return to zero, and water metering will re-commence as normal.

The water total can be returned to zero at any time from the dosing screen by pressing ""Set"" and holding for 4 seconds.

### Flow Sensor Capacities

There is a maximum limit on the flow of water permissible through each flow sensor. The maximum flows are:

| TBR 10 (Sensor 1) | 400 l/hr    |
|-------------------|-------------|
| VTY 10 (Sensor 2) | 1,500 l/hr  |
| VTH 25 (Sensor 3) | 10,000 l/hr |
| VTH 40 (Sensor 5) | 25,000 l/hr |
|                   |             |

# **Spare Parts and Accessories**

| Item                                      |      | Code    |
|---|------|---------|
| Select Water Meter unit with VTY10 sensor | Unit | 170CA10 |
| Select Water Meter unit with VTH25 sensor | Unit | 170CA25 |
| Select Water Meter unit with VTH40 sensor | Unit | 170CA40 |
| Select Water Meter unit with TBR10 sensor | Unit | 170CA50 |
|   |      |         |
| Flow sensor (VTY10)                       | unit | 160CA03 |
| Flow sensor (VTH25)                       | unit | 160CA05 |
| Flow sensor (VTH40)                       | unit | 160CA08 |
|   |      |         |
| Power supply 12V-DC 1A                    | unit | 169CA00 |
|   |      |         |