Short description FLUXTRONIC®

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(does NOT replace the operating instructions)

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1 General Information

1.1 State of delivery

When the FLUXTRONIC® is delivered it is switched off. When pressing any key the display is switched on. If the device has not been used for more than 5 minutes the FLUXTRONIC® switches off automatically.

The flow meter is calibrated before delivery with water 20°C at a filling quantity of 50 l/min. The corresponding calibration constant is saved under memory location 0.

1.2 Description of keys

Stop – can be pressed at any time

Process / Change

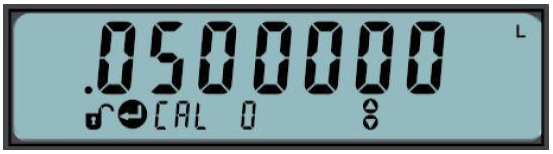
Select (left/right/up/down)

Operate / OK / Start Stop

2 (Initial) Start up

Check calibration constant and change if necessary.
Before start up the calibration constant must be checked, for displaying it the following steps are necessary:

Press the select key 3 times



The memory location (CAL 0-9) and the calibration constant (0.9999999 to 99.99999) are displayed.
There are 10 memory locations.
The calibration constant for water that has been determined at the factory is saved on the memory location 0, all further memory locations are allocated with the standard value 0.0500000.

Press Stop once – back to the standard display

Other media:
The FLUXTRONIC® registers the pulses by volume of the flow meter. These pulses are calculated via the calibration constant into the actual volume and displayed.
Every medium has different physical characteristics (e.g. density, viscosity).

In order to adapt the FLUXTRONIC® to other operating conditions / media the calibrating constant should conform to the media to be filled. For this, a test filling of a total quantity of at least 10 litres into an appropriate measuring vessel with scaling has to be conducted.

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If only 18.5 litres are filled acc. to the display, the real quantity in the measuring vessel is however 20 litres, a new calculation of the calibration constant acc. to the following example is necessary:

C = calibration constant

$$C_{new} = C_{old} \times \frac{\text{really measured quantity (measuring cylinder)}}{\text{quantity on the display}}$$

C new = calibration constant conform to the real conditions

C old = momentarily used calibration constant

Example:

$$C_{new} = 0.0490000 \text{ (C old)} \times \frac{\text{20 litres (quantity in the measuring cylinder)}}{\text{18.5 litres (quantity on the display)}}$$

C new = 0.0529729

In order to enter the new calculated calibration constant the following steps are necessary:


Press the select key 3 times


Press Process



Choose the memory location 0 - 9


Press Process twice


Enter the calibration constant


Press OK

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Choose the volume unit
Every memory location (0-9) can be allocated with different units of the quantity.

The following units can be chosen:

[-]	**no unit**
Kg	**Kilogram (1000 g)**
G	**Gram**
m³	**Cubic metre (1000 l)**
ml	**Millilitre (0.001 l)**
L	**Litre**
Imp Gal	**Imperial (British) Gallon (~4.4561 l)**
US Gal	**American Gallon (~ 3.7854 l)**

In order to enter the units the followings steps are necessary:


Press the select key 3 times


Press Process twice


Press the select key


Press Process



Choose the unit


Press OK

When changing the units the calibration constant must be adapted accordingly (see 2.1).
The calibration constant can be converted or converged with the above mentioned factors.

Example:
It has been calibrated with litres, however, it is to be displayed in US gallon.

$$C\ US\ Gal = C\ litre \times \frac{1}{3.7854} \quad \text{or}$$

It has been calibrated with litres, however, it is to be displayed in m³.

$$C\ m^3 = C\ litre \times \frac{1}{1000}$$

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3 Reset to factory settings

The FLUXTRONIC® can be reset to the factory settings. Several standard values are used. An adaption to the required operational parameters must be made by the operator.

For the reset the following steps are necessary:


Press the selection key


Press Process


Press the selection key twice


Press Process


Press the selection key


Press OK

4 Switching between manual and automatic mode



The stop and select key must be held down for longer than ~ 3 seconds.

5 Manual operation (RUN)

The FLUXTRONIC® is set to manual operation on delivery, it is now in display operation. This kind of mode is for manual filling, the quantity is shown at the display.

The following function settings are possible:

Delete display of volume:


Press the OK key ~ 1 second

Change calibrating constant: see 2.1

Reset all settings to standard values (factory settings) see chapter 3

6 Automatic operation (START)

This mode is for semi-automatic filling of a pre-set quantity. You need an amplifier for this.

6.1 Entering the required quantity


Press Process


Choose memory location 0 - 9


Press Process


Enter the required quantity


Press OK

6.2 Start / Stop filling


Start / Stop is done with the OK key


Interrupt filling
The ongoing filling can be interrupted and continued at any time by actuating the OK key. The cycle counter only records successfully completed fillings.


Stop filling
The ongoing filling can be stopped at any time by actuating the Stop key. The cycle counter does not record this filling.

Change calibration constant: see 2.1

Reset all settings to standard values (factory settings): see chapter 3

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