

Installing and Using

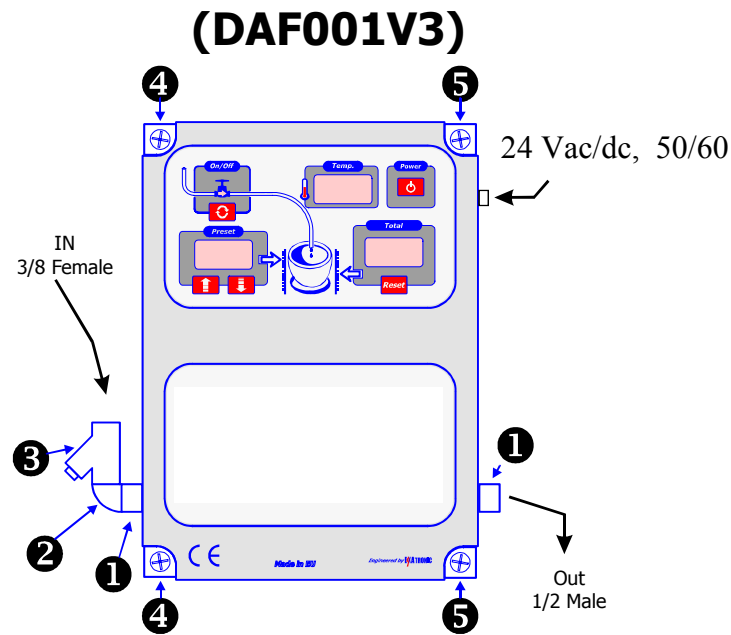
Water Meter

DOYON

DAF001V3

Release V2.0

# 1 Installation



The set **2**+**3** is supplied together with the water meter.

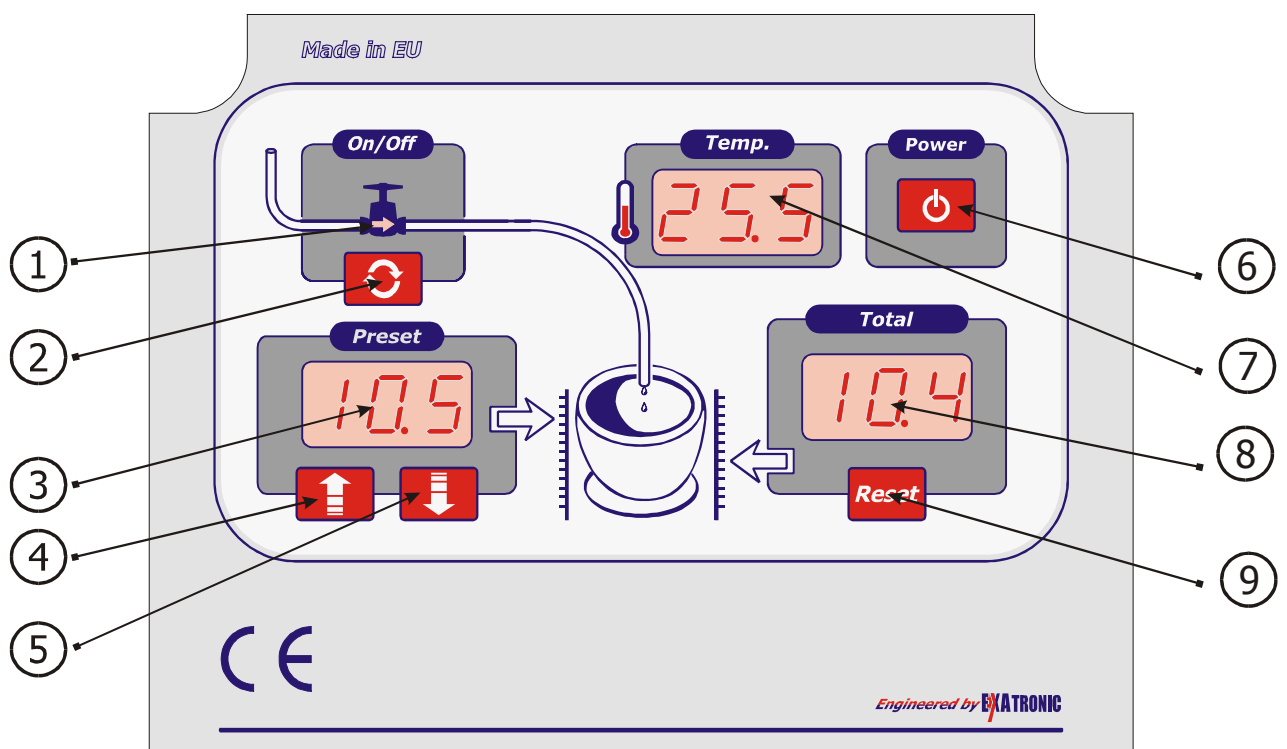
You must always use the filter **3** or small particles will damage the meter and your dough will be dirty and unusable.

To connect the filter to the inlet and additional pipes to the outlet you must grab with an appropriate tool the fixing parts **1**, so that internal pipes do not move causing water leaks.

If you need to open the meter (voiding the warranty) you should fully unscrew **5** and partially **4**, twirling the box cover over its left vertical axle, otherwise internal cables can be broken.

Do not hang the meter by the electrical cables or by the pipes. Appropriate fixing accessories are supplied to fix the meter in the wall. First fix the meter on a perfectly vertical wall as in the picture and then connect power and water pipes. If the meter is not fixed vertically the accuracy of the metering device will decrease.

## 2 Using the water meter












### 2.1 Description of the electronic controls

1 – Dosing "ON" (valve open)



2 – Start / stop dosing

|                                    |
|------------------------------------|
| 3 – Water quantity preset          |
| 4 – Increase water quantity preset |
| 5 – Decrease water quantity preset |
| 6 – Power on / off                 |
| 7 – Water temperature (°C or °F)   |
| 8 – Quantity since last reset      |
| 9 – Water quantity reset           |

## 2.2 Normal operation

- ❖ To power on the meter press key . If connected to the power, the meter will show the temperature, even if powered off.
- ❖ Set the water quantity with keys  . The quantity is shown in liters, US Gallons or Canadian Gallons depending on the Unit chosen. 10.5 mean 10 liters plus 5 deciliters or 10 and one half of the Gallon chosen.
- ❖ Press key  to start dosing. Indicator **1** goes on and internal valve opens.
- ❖ Dosed water is displayed on «**Total**»
  
- ❖ When preset water is done, indicator **1** goes off and the valve is switched off. You will have now «**Total**» and «**Preset**» displays equal. To start a new dose of the same quantity just press key . No need to press key . If you need to set a new different quantity press key  and set the new value with keys  .
- ❖ While the valve is open, you can correct the preset value.

## 2.3 Configuration

- ❖ To select °C or °F, press key , while the water meter is powered off (but connected to the power source)
- ❖ To select the Unit to be measured press key  several times while the water meter is powered off (but connected to the power source). Indicator **1** will display
  - -L- for Liters
  - -U- for US Gallons
  - -C- for Canadian Gallons

### 3 Technical data

#### 3.1 Electrical data

- ❖ Power Supply
  - 24 Vac/dc 50/60Hz
- ❖ Power consumption: 17VA
- ❖ Protection: fuse T800mA, 20 x 5 mm
- ❖ Working temperature: 0° to 60°C
- ❖ Relative humidity: 0% to 80% without condensing.

#### 3.2 Hydraulic data

- ❖ Min. pressure: 0,25bar (3,6psi)
- ❖ Max. pressure: 8 bar (116psi)
- ❖ Bursting pressure: 200bar (2900psi)
- ❖ Water temperature reading range from 0,0°C to 99,5°C (*from 32°F to 214°F*)
- ❖ Water metering from 0,1 to 99,9 litres/*US Gal/Can Gal* in steps of 0,1
- ❖ Accuracy:
  - ❖ ± 2% with water flow rates from 2l/min to 25l/min
    - (*From 0.5 to 6,5 US Gal/min*)
    - (*From 0.4 to 5,5 Can Gal/min*)
  - ❖ ± 5% with water flow rates from 0,5l/min to 2l/min (*32°F to 214°F*)
    - (*From 0,13 to 0,5 US Gal/min*)
    - (*From 0,11 to 0,4 Can Gal/min*)
- ❖ Max. water flow rates: 25l/min
  - (*6,5 US Gal/min*)
  - (*5,5 Can Gal/min*)
- ❖ Min. water flow rates: 2 l/min (lower water flow rates will degrade accuracy to more than ± 5%)
  - (*0,13 US Gal/min*)
  - (*0.11 Can Gal/min*)
- ❖ Water inlet 3/8 NPSM Female
- ❖ Water outlet 1/2 NPSM Male

**FOR MORE INFORMATION,**  
**PLEASE CONTACT OUR OFFICE:**

**DOYON EQUIPMENT INC.**  
1255, rue Principale  
Linière, Qc, Canada G0M 1J0

**Tel. : 1 (418) 685-3431**  
**Canada : 1 (800) 463-1636**  
**U.S. : 1 (800) 463-4273**  
**FAX : 1 (418) 685-3948**

Internet: <http://www.doyon.qc.ca>  
E-Mail : [doyon@doyon.qc.ca](mailto:doyon@doyon.qc.ca)

# **LIMITED WARRANTY**

**(Continental United States Of America And Canada Only)**

Doyon Equipment Inc. guarantees to the original purchaser only that its product are free of defects in material and workmanship, under normal use.

This warranty does not cover any light bulbs, thermostat calibration or defects due to or resulting from handling, abuse, misuse, nor shall it extend to any unit from which the serial number has been removed or altered, or modifications made by unauthorized service personnel or damage by flood, fire or other acts of God. Nor will this warranty apply as regards to the immersion element damaged by hard water.

The extent of the manufacturer's obligation under this warranty shall be limited to the replacement or repair of defective parts within the warranty period. The decision of the acceptance of the warranty will be made by Doyon Equipment service department, which decision will be final.

The purchaser is responsible for having the equipment properly installed, operated under normal conditions with proper supervision and to perform periodic preventive maintenance.

If any parts are proven defective during the period of one year from date of purchase, Doyon Equipment Inc. hereby guarantees to replace, without charge, F.O.B. Linière, Quebec, Canada, such part or parts.

Doyon Equipment Inc will pay the reasonable labor charges in connection with the replacement parts occurring within one year from purchase date. Travel over 50 miles, holiday or overtime charges are not covered. After one year from purchase date, all labor and transportation charges in connection with replacement parts will be the purchaser's responsibility.

Doyon Equipment Inc. does hereby exclude and shall not be liable to purchaser for any consequential or incidental damages including, but not limited to, damages to property, damages for loss of use, loss of time, loss of profits or income, resulting from any breach or warranty.

In no case, shall this warranty apply outside Canada and continental United States unless the purchaser has a written agreement from Doyon Equipment Inc.