

T R I U M P H
A U T O M A T I C W A T E R M E T E R

PLC CONTROLLED
ETL APPROVED

I N S T R U C T I O N M A N U A L

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TRIUMPH fully automatic water meter guarantees the precise inflow of water at a set temperature. The control of the inflow is regulated by a program installed on the PLC. Water meter can be operated from the manual screen as well the recipe screen.

On the manual screen, the user has an option to set the desired amount of water at a set temperature and PLC will control the inflow. For the recipe screen, the user has an option to create a list of recipes with pre-determined water amount and temperatures. The user then can select the desired recipe from the list.

The TRIUMPH water meter has an exceptionally precise calibration system which depends on the water pressure. All parameters are preset by the manufacturers of the water meter. Verification and recalibration may be required after the installation.

Water inflow can be set in gallons, liters or pounds. The temperature can be set in degrees Fahrenheit or Celsius.

Water meter "Triumph" can be manufactured with one or two water valves.

To adjust the actual water temperature to the required setting for the water meter with one valve, you can use the "FLUSH" button. The water will go through the drain system and stop after reaching required temperature. After this you put the hose into the mixer and push the "START" button.

To adjust the actual water temperature to the required setting for the water meter with two valves (bypass) you can use the "START" button and the water will be drained until it is adjusted to the required temperature and then the second valve will be opened and the water will be delivered to the mixer.

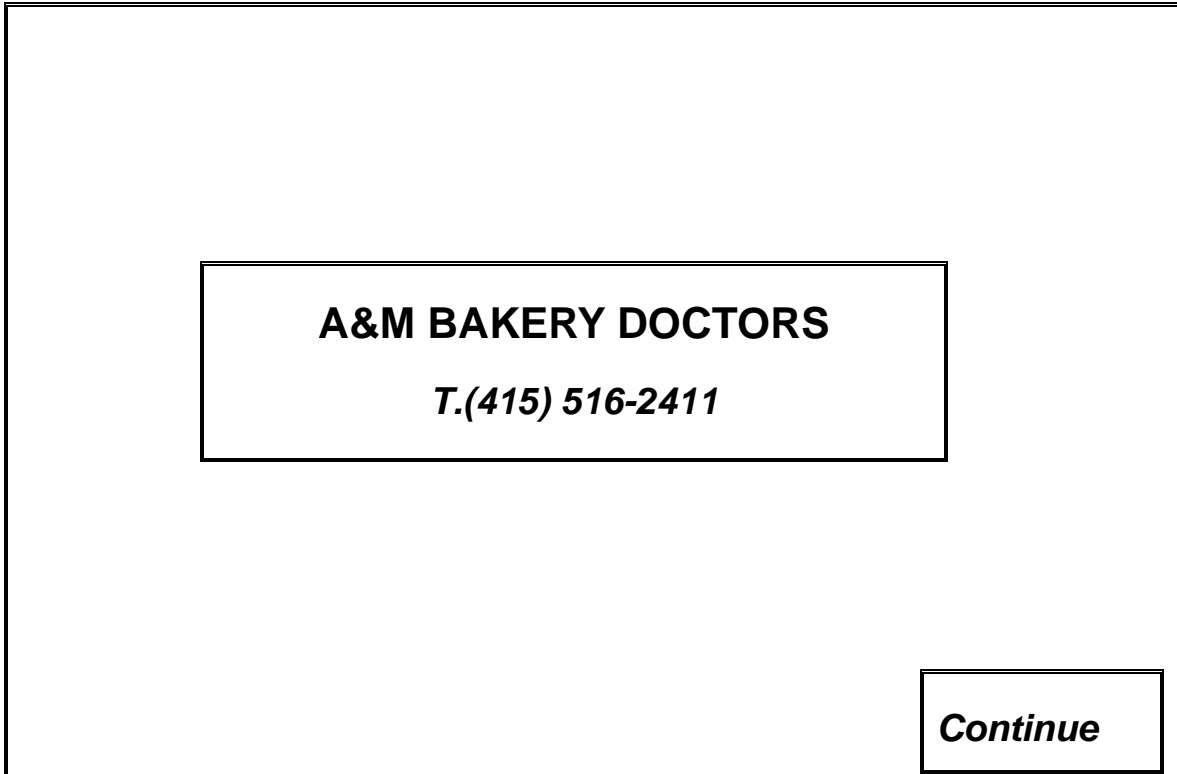
The manufacturer recommends filters for cold and hot water.

If the water meter remains idle for 30 minutes, it will automatically switch to the stand-by cycle.

To turn on the water meter, the user needs to tap the touch screen.

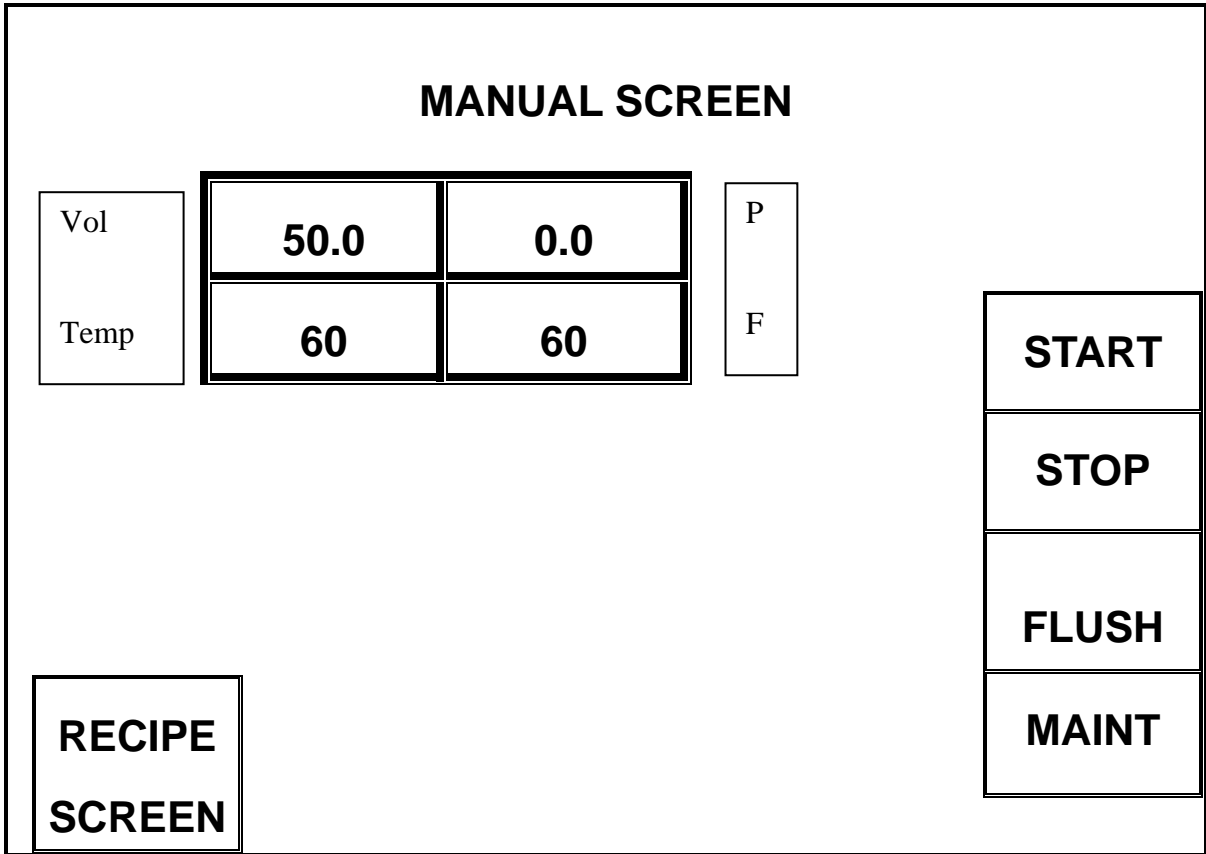
Operation instruction.

Plug water meter in the flying socket. Your touch screen will show:



Touch button “continue” on the touch screen.

Display will come for the manual screen.



To set up water or temperature, touch the volume or temperature button. Screen will change to:

7	8	9
4	5	6
1	2	3
0	CLEAR	

0.0
MINIMUM
MAXIMUM
CURRENT

CANCEL	ENTER
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After setting the water amount and temperature, tap “ENTER”. Screen will change back to the “manual” screen (see page 4). Tap the “START” on the screen – and the display will change the status to “RUNNING”. If you need to stop the inflow of water, tap the “STOP” button. Double-tapping the “STOP” button will cause the water inflow to reset itself.

To adjust the real water temperature to the required water temperature from the manual screen, you can use the “FLUSH” button. Press and keep holding the “FLUSH” button and watch the temperature on the screen while draining the water. The drained water will not be included into the requested water volume.

To pick the desired system of measurement or to calibrate the water meter, tap the “MAINTENANCE” button on the manual screen. It will bring you to following display:

ENTER SECURITY CODE			
7	8	9	
4	5	6	
1	2	3	ENTER
	0	CL	CANCEL

START
STOP
FLUSH
MAINT

Enter the security code (516) and tap the “ENTER” button. The screen will change once again to:

MAINTENANCE SCREEN

VOLUME UNITS

TEMPERATURE

GALLONS	LITERS	POUNDS	FAHRENHEIT
365	140	65	PID ACTION

FLUSH

**MANUAL
SCREEN**

PID SCREEN

To choose the desired system of measurement, simply tap one of the buttons. Tapping “FAHRENHEIT” button will cycle the temperature setting to “CELSIUS”. Tapping “GALLONS”, “LITERS”, and “POUNDS” will also change the unit measurement.

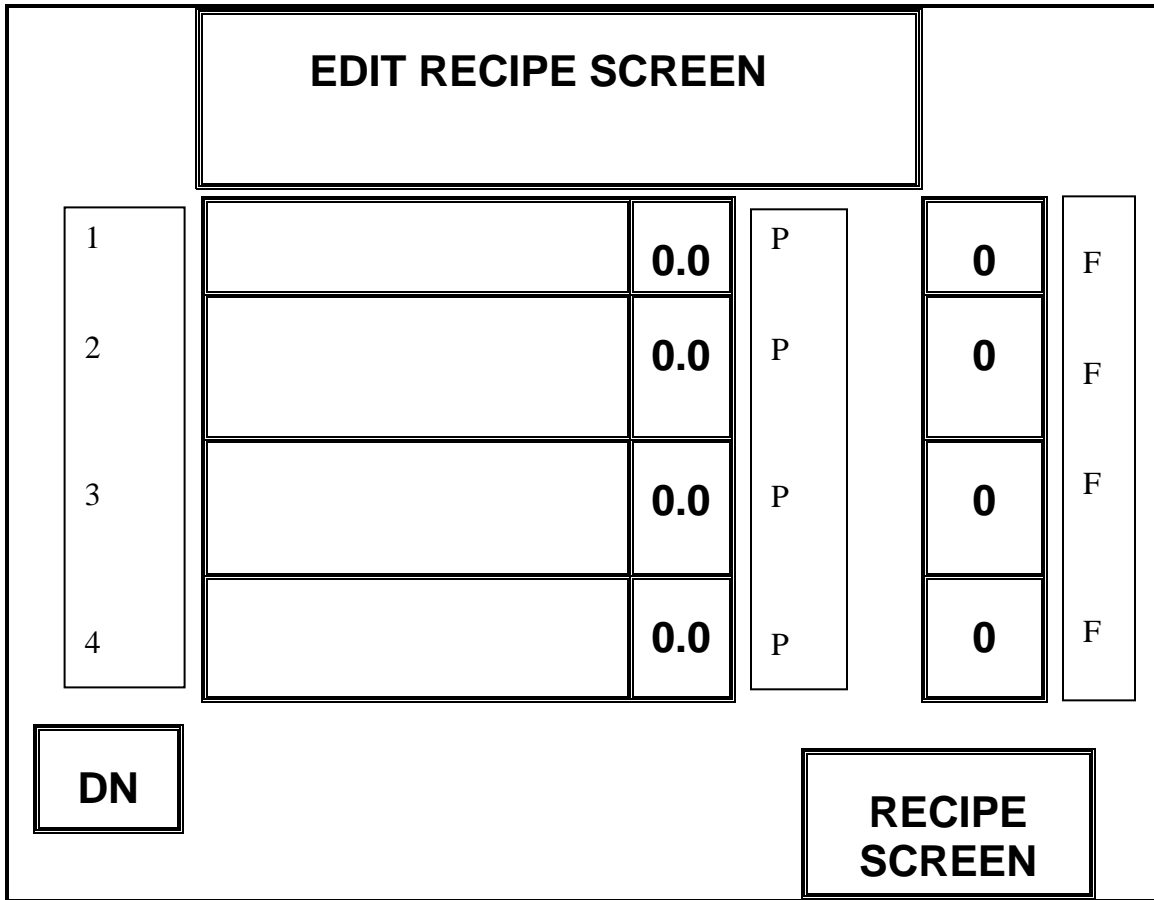
To calibrate tap the number under the desired measurement system. This will bring you to the number pad (see page 5), where you will be able calibrate the cycles.

To add hot or chilled water to the water meter, tap the “PID ACTION” button and change the setting appropriately.

The Recipe Screen:

			UP						
<table border="1"> <tr> <td>1</td> <td>TEST</td> </tr> </table>			1	TEST	DN				
1	TEST								
			START						
<p>SET POINT ACTUAL</p> <table border="1"> <tr> <td>Vol.</td> <td>40.0</td> <td>0.0</td> </tr> <tr> <td>Temp</td> <td>60.0</td> <td>60.0</td> </tr> </table>			Vol.	40.0	0.0	Temp	60.0	60.0	STOP
Vol.	40.0	0.0							
Temp	60.0	60.0							
			FLUSH						
<table border="1"> <tr> <td>EDIT RECIPE SCREEN</td> <td>MANUAL SCREEN</td> </tr> </table>			EDIT RECIPE SCREEN	MANUAL SCREEN	MAINTENAN SCREEN				
EDIT RECIPE SCREEN	MANUAL SCREEN								

To use a preset water amount and temperature controls (i.e. a recipe), or to add another recipe, tap the “RECIPE SCREEN” button from the manual screen. Use “UP” and “DN” buttons to navigate up or down the recipe list. Tap the desired recipe to use the presets in the recipe. To add or edit a recipe, tap the “EDIT RECIPE SCREEN”. This will take the user to the next display:



To prevent accidental changes in the recipes, the “EDIT RECIPE SCREEN” will be flashing whenever it is accessed. To start adding or editing recipes, the user will need to tap on the flashing button.

The “EDIT RECIPE SCREEN” has three editable columns: name of the recipe, water amount and temperature. Tapping on the first column will bring up a keypad, where the user can enter the name of the recipe. Tapping on the second and third columns will bring up the number pad, where the use can set the water amount and temperature in the units specified on the “MAINTENANCE” screen.

“DN” button will take you down the list of recipe slots. Maximum number of possible recipes is 15.

After completing the details of the desired recipes, tap the “RECIPE SCREEN” button to return to the recipe screen and use the recipes.

Mounting Instructions*:

1. Determine the permanent location of the unit.
2. Locate and make holes to drill for anchor bolts
3. Anchor unit to the wall
4. Connect cold and hot water supply
5. Plug power cord into the receptacle

Cleaning Instructions

It is forbidden to rinse the water meter with either hot or cold water. For cleaning the box and the touch screen, we recommend using a moistened cloth.

* Special mounting fit will be installed on the box before shipping to the customer.