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# DWater

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Electronics for dispensers and water treatment



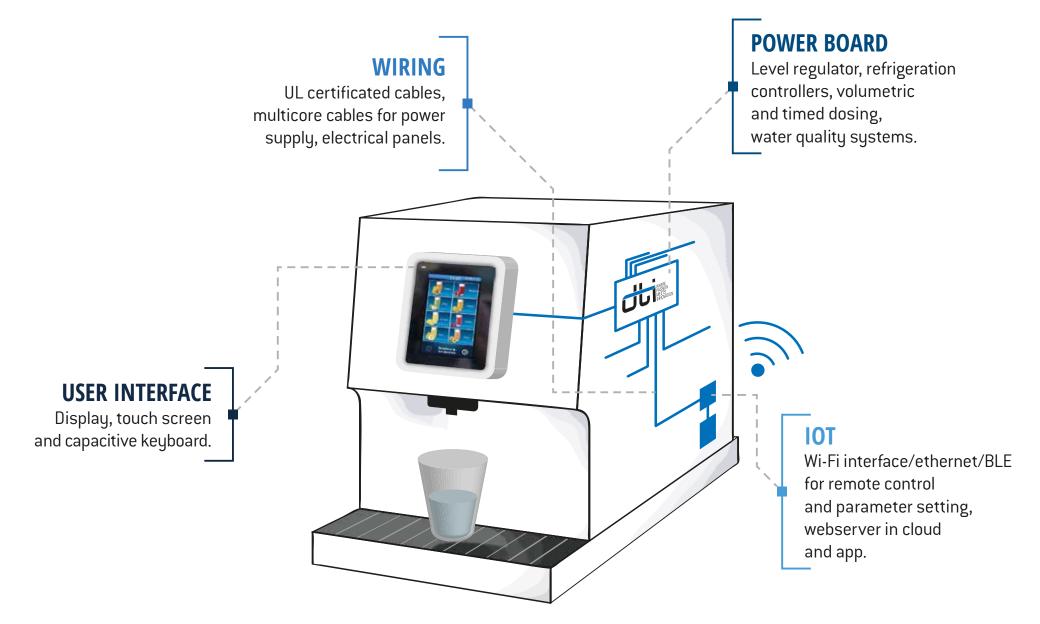
Electronic solutions for water and juice dispensers

The DWater product range has been designed to meet the needs of the world of water and juice dispensers.

DTI provides standard electronics which can be fully customized in design and functions.

Every DWater unit can connect with:
MDB interface for cash and contactless payment
DConnect Wi-Fi and NB modules for remote and cloud connectivity

## BEVERAGE DISPENSING MACHINES





## **DWater SOLUTIONS**

### DWater-XS

## DWater-M

## DWater-XL

DUvc

Level Regulators

Dwater-O

Control electronics for water coolers with 3 types of water: cold, room temperature and sparkling. Backlit capacitive keyboard management and cooling system temperature setting.

Electronic kit for three-water dispenser with volumetric dosing and possibility of simultaneous dispensing. Five and seven-inch touch display control.

Advanced electronic for three-water dispensers. Water detector, double temperature probe, CO<sub>2</sub> cylinder level monitoring, and optional IoT features.

LED driver board with pulsed controller (PWM) for surface disinfection with UV radiation.

Level controllers for boiler and tank, with pump and solenoid valve activation. Resistance saving function with safety timeout.

Control unit for osmosis filtering systems, which regulates the correct water flow inside a water purifier.





- Dowor cupply	230Vac ±10% 50/60Hz
Power supply	110Vac ±10% 50/60Hz
	1 relay 16A 250Vac resistive
Outputs	4 relays 5A 250Vac resistive
_	SSR for compressor
	Carbonator level
	2 volumetric counters
	BLE / WI-FI module interfacing
Inputs	Capacitive button panel
	management
	NTC for cold
	Potentiometer
Type of communication	RS485 Modbus



#### Proposed interface 3,5" capacitive display







## DWater-M FEATURES



De ser el	230Vac ± 10% 50/60 Hz
Power supply	115Vac ± 10% 50/60 Hz
- High voltage outputs	3 relays 16A 250Vac resistive
High voltage outputs	5 relays 5A 250Vac resistive
- Low voltage outputs	2 LED
Low voltage outputs	Audible alarm
	3 level probes (conductive detection)
- Low voltago inpute	1 analog for potentiometer
Low voltage inputs	5 voltage 0÷5V
	2 digital for flow meter
- Disponsing	timed
Dispensing	volumetric
Communication	TTL RS232
	RS485 Modbus



#### Proposed interface 5'' - 7'' capacitive display













	230Vac ±10% 50/60Hz
Power supply	115Vac ±10% 50/60Hz
	12-24Vac
- High voltago outputs	3 relays 16A 250Vac resistive
High voltage outputs	4 relays 5A 250Vac resistive
	2 level probes with conductivity
	detection
	5 clean contacts
Low voltage inputs	3 pulses for volumetric sensor
	control
	2 NTC temperature probes
	(10k 3435)
Type of communication	RS485 Modbus



#### Proposed interface 10" capacitive display











#### Constant current driver

LED output with the following features

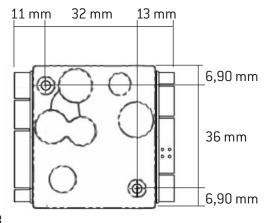
80mA < IF < 500мА
1V < VF < 7V

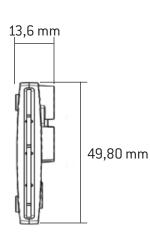
- PWM pulsed driving of the UVC LED
- PWM: duty cycle 50%, frequency fpwm = 10Hz
- LED Vin Range: 12÷24Vdc or 12÷24Vac
- IF from 80mA up to 500mA and VF from 1V up to 7V
- LED fault indication
- Input sensing voltage detection 24Vac/dc or 230Vac
- Digital inputs for configuring LED activation times



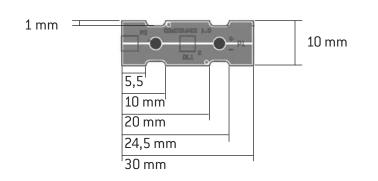
#### Dimensions

#### Driver





#### LED





## Level Regulators FEATURES

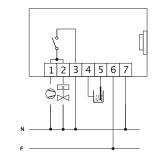
<b>Technical features</b>	Description	DCLDD1	DCLDD2	DCLDD3
Power supply	230 Vac ± 10% 50/60 Hz			
	115 Vac ± 10% 50/60 Hz			
High voltage inputs	NP			
	Main output 16A / 250 VAC Resistive			
High voltage outputs	Secondary output 5 A/250 Vac Resistive			
	Secondary output 5 A /250 VAC Resistive			
Low voltage	Conductivity level probe			
inputs	Minimum/security level probe with conductivity detection			
Low voltage outputs	Audible alarm			
Box size	73,5 mm x 45,4 mm x 75 mm			
Working temperature	0 +50°C with Relative humidity: 30 85 % (non-condensing)			
Storage temperature	- 20 + 80 °C, Relative humidity: 30 85 % (non-condensing)			
Box material	PVC VO			
	Male Faston 6,3			
Connections type	5 mm pitch male connector			
	2.54 mm pitch male connector			
Fixing type	Panel fixing by screw with a maximum diameter of 0 3.8mm			

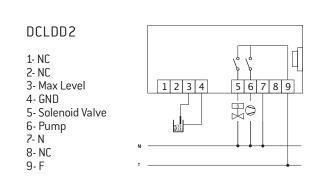


#### Available configurations

#### DCLDD1

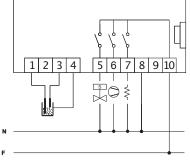
1- Pump 2- Solenoid Valve 3- Com 4- GND 5- Level 6- F 7- N





#### DCLDD3

- 1- Min Level
- 2- NC
- 3- Max Level 4- GND
- 5- Solenoid Valve 1
- 6- Pump
- 7- Resistance
- 8- N
- 9- NC 10 - F







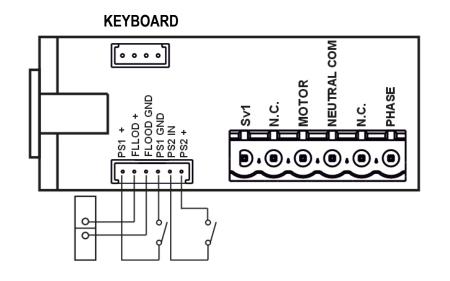
<ul> <li>Power supply</li> <li>230Vac ± 10% 50/60 Hz</li> <li>115Vac ± 10% 50/60 Hz</li> <li>Anti-flooding probe</li> <li>PS1: pressure switch</li> <li>PS2: pressure switch</li> <li>Parameter selection jumper</li> <li>Motor 250Vac 16A resistive</li> <li>Solenoid valve 250Vac 5A resistive</li> </ul>
Inputs     Inputs
PS1: pressure switch     PS2: pressure switch     Parameter selection jumper     Motor 250Vac 16A resistive     Solenoid valve 250Vac 5A resistive
Outputs     PS2: pressure switch     Parameter selection jumper     Motor 250Vac 16A resistive     Solenoid valve 250Vac 5A resistive
PS2: pressure switch         Parameter selection jumper         Motor 250Vac 16A resistive         Solenoid valve 250Vac 5A resistive
Motor 250Vac 16A resistive           Solenoid valve 250Vac 5A resistive
Outputs     Solenoid valve 250Vac 5A resistive
Buzzer
LED



#### Keyboard



#### Connections



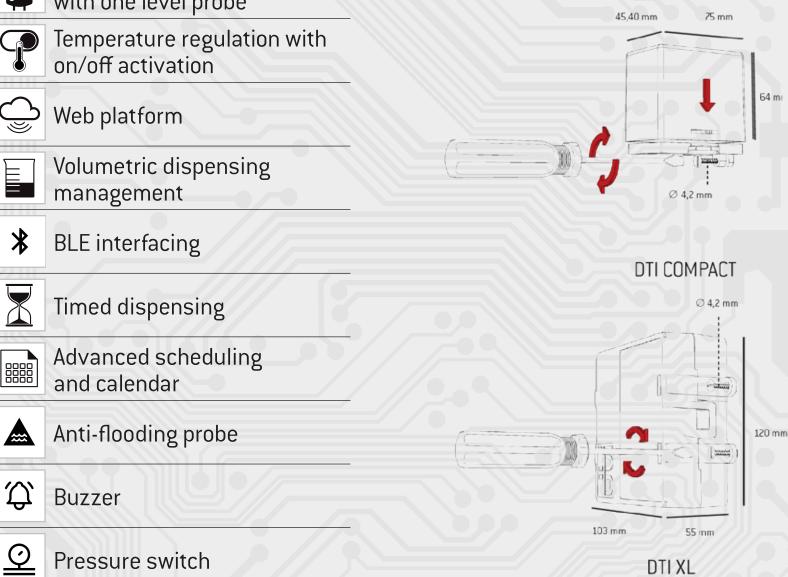


## **FUNCTIONS DESCRIPTION**



Loading cycle with one level probe





EXTERNAL BOX DIMENSIONS

