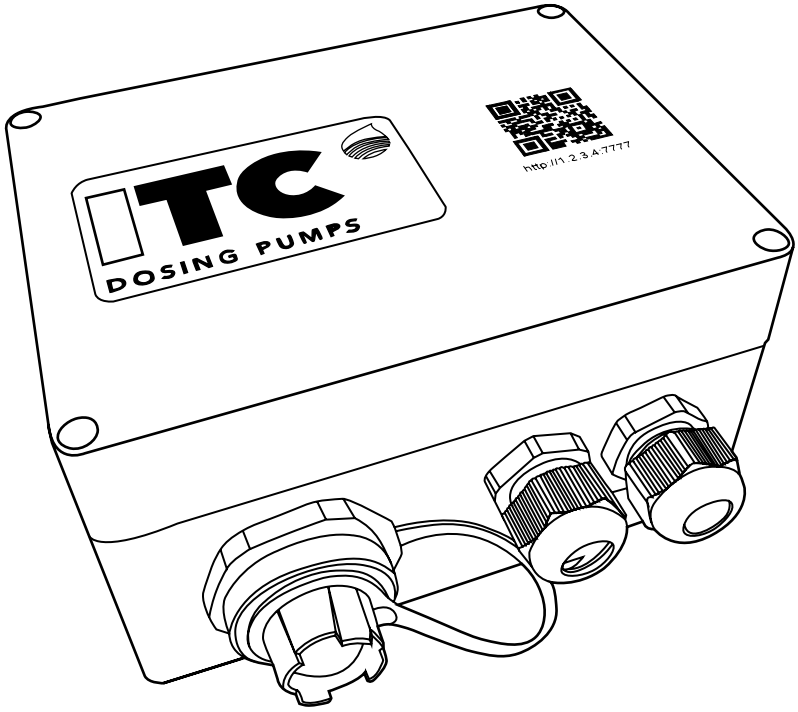
Company certified by

Management System
ISO 9001:2015

www.tuv.com
ID 9105017955

ITC
DOSING PUMPS



GATE

ENGLISH

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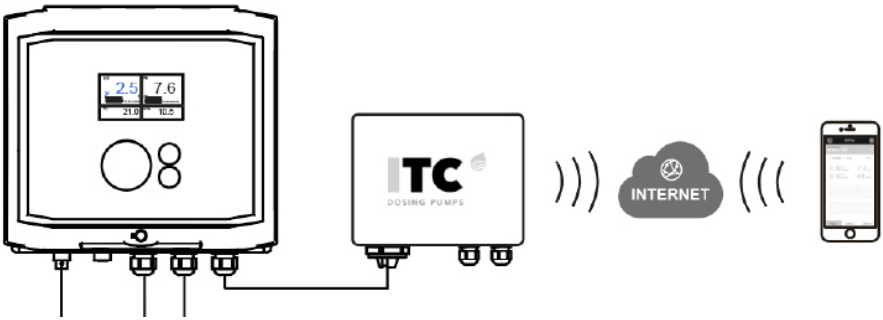
SAFETY RULES

In order to avoid personal injury risks and environmental damage, and to ensure that the device works correctly, the personnel in charge of installing, operating and maintaining the device must follow the instructions given in this manual, paying particular attention to the recommendations and warnings detailed in it. In addition, they must follow the specific instructions for use for the chemical products that they wish to dose.

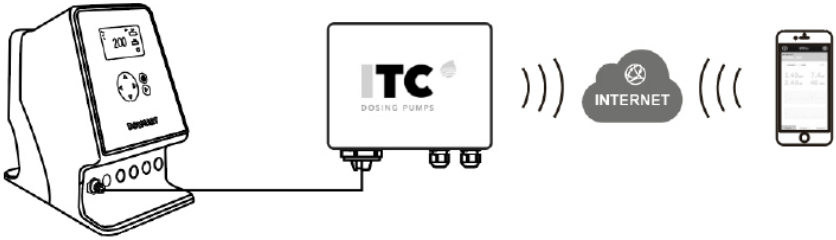
1. GENERAL DESCRIPTION

The GATE device allows us to monitor, configure and control ITC devices on PCs and mobile devices (smartphone, tablet), locally (via Ethernet and Wi-Fi) and remotely (on the website: www.itc-cloud-manager.com).

INSTALLATION DIAGRAMS



CONNECTION BETWEEN GATE AND WTRTEC



CONNECTION BETWEEN GATE AND DOSMART

2. TRANSPORTATION AND HANDLING

The original packaging is designed to ensure that the device can be transported and stored without being damaged, provided that this is done in dry, well-ventilated areas away from heat sources.

Included inside the packaging:
- GATE
- Instruction manual

3. TECHNICAL CHARACTERISTICS

Power supply: 100-240 Vac 50-60 Hz. 12 Vdc

Power: 6 W

IP65 protection

Case material: ABS

Operating temperature: 0…45ºC / 32…113ºF

Maximum relative humidity: 0.95% non-condensing

Inputs

230 Vdc power supply	Power supply
100-240 Vac power supply	Power supply

Outputs

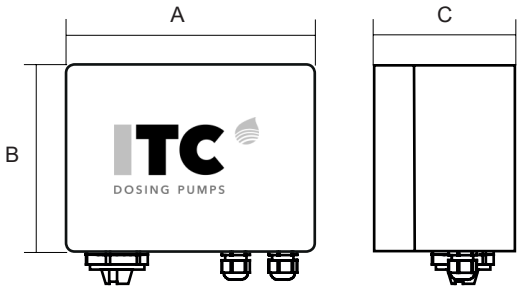
12 Vdc output	To power CL420MB sensor

Communications

RS485 port	Connection to the ITC device

Dimensions

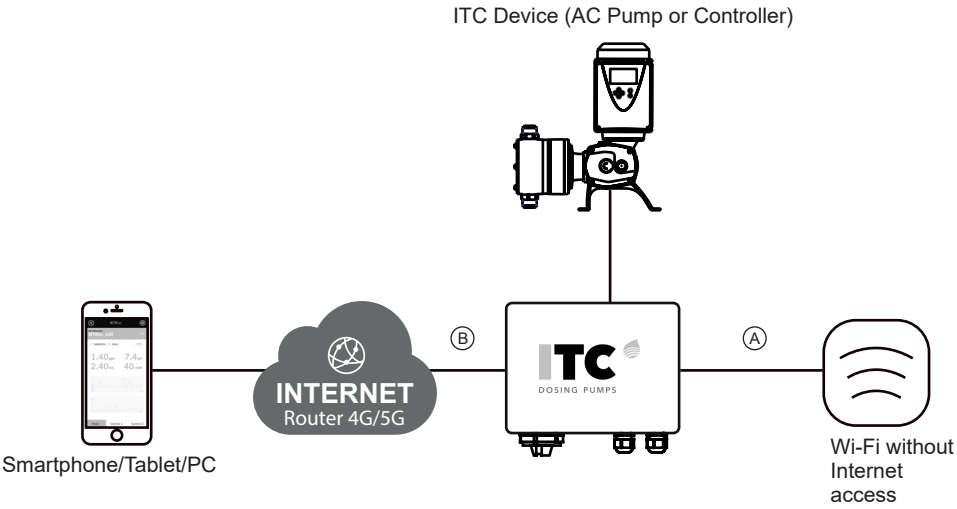
	mm	inches
A	160	6.29
B	120	4.72
C	90	3.54



AVAILABLE MODELS

Code	*Description*
01-001	*WC3000 communications module GATE.*
01-002	*WTRpro communications module GATE.*
01-003	*CI420MB sensor communications module GATE.*
01-004	*Dostec AC communications module GATE.*
01-005	*TLM communications module GATE.*
01-006	*WTRTEC communications module GATE.*
01-006-IN	*Built-in WTRTEC communications module GATE.*
01-007	*DOSmart communications module GATE.*

4. OPERATION
4.1 Functional diagram of the GATE



The GATE allows us to monitor, configure and control ITC devices on PCs and mobile devices (smartphone, tablet), locally Ⓐ (via Ethernet and Wi-Fi) and remotely Ⓑ (on the website: www.itc-cloud-manager.com).

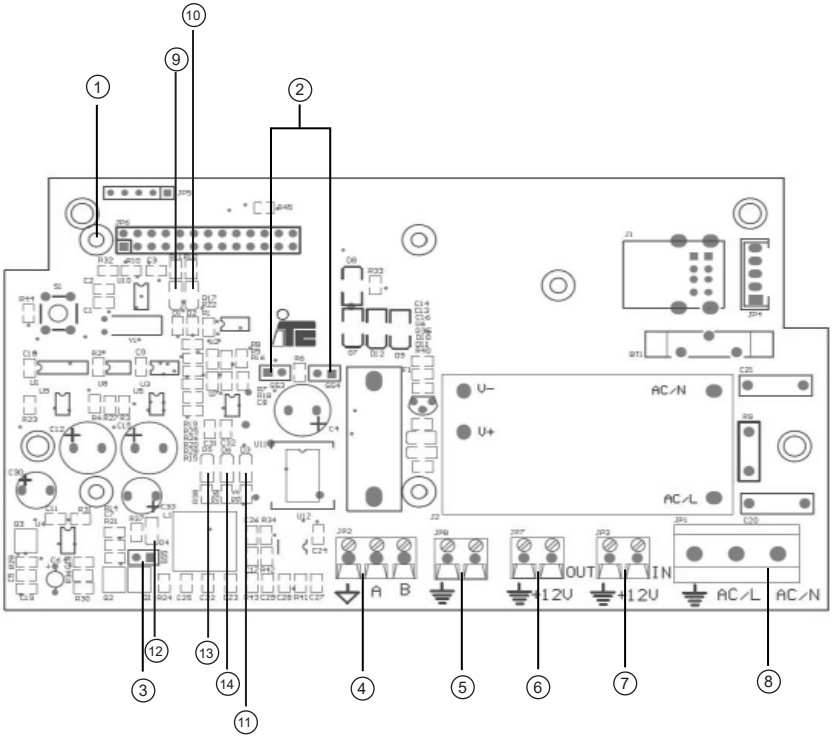
NB: Each GATE can only be connected to ONE ITC device.

5. INSTALLATION

A place that is protected from water, away from heat sources and direct sunlight should be chosen for its installation.

We recommend separating the GATE's cables from any cables that may generate electrical noise.

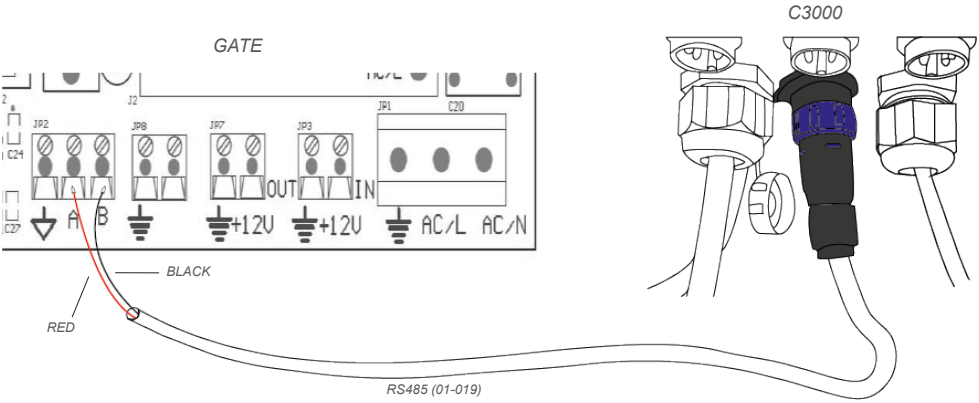
5.1. Wiring



① Reset / pairing button
② GS3 / GS4 jumpers
③ GS5 jumper
④ RS485 output
⑤ Internal use
⑥ 12 V OUT
⑦ 12 Vdc power supply
⑧ 110-240 V 50/60 Hz power supply
⑨ D1 LED
⑩ D2 LED
TLM device initialisation
⑪ D3 LED - 5 V power
⑫ D4 LED - CPU power supply
⑬ D5 LED - 5 V isolated power
⑭ D6 LED - 12 V power

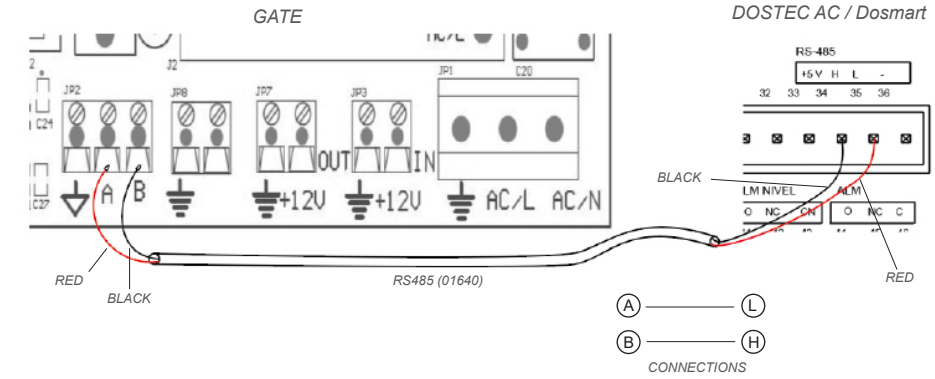
5.2. Connection between devices

5.2.1 Controller 3000 Series



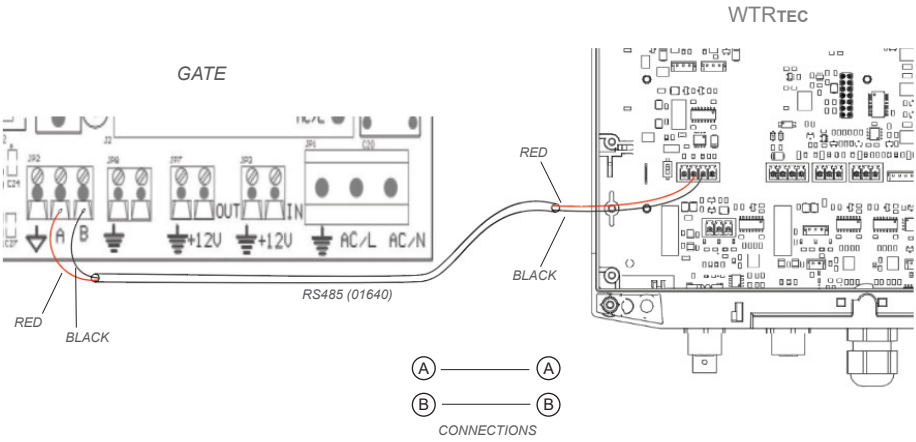
Cable 01-019 included with GATE 01-001.

5.2.2 Dostec AC / Dosmart



Cable 01640 is an option. Ordered by the metre.

5.2.3 WTRTEC



Cable 01640 is an option. Ordered by the metre.

6. START-UP

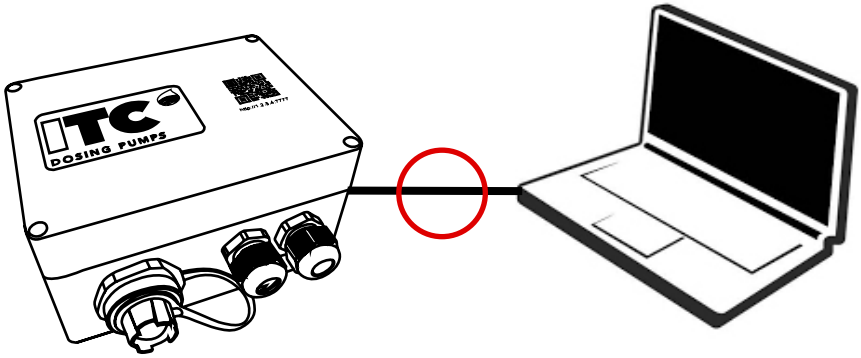
The GATE is preconfigured to work with a local connection.
To work with a connection to the cloud, follow the steps below:

① Configuring the GATE device

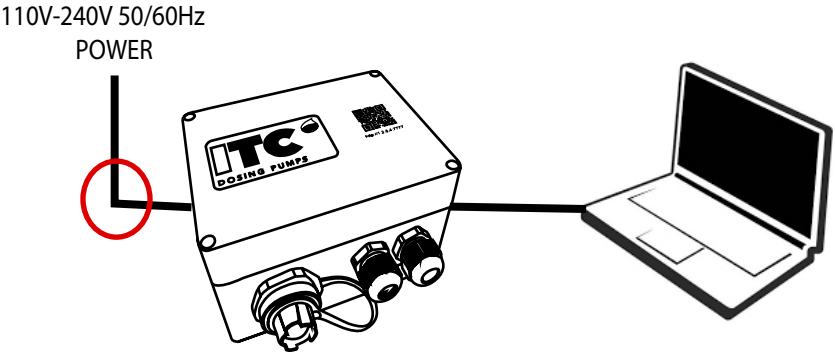
There are two ways to configure the GATE (see Ⓐ or Ⓑ). You will need an internet connection to do it.

Ⓐ Via Ethernet

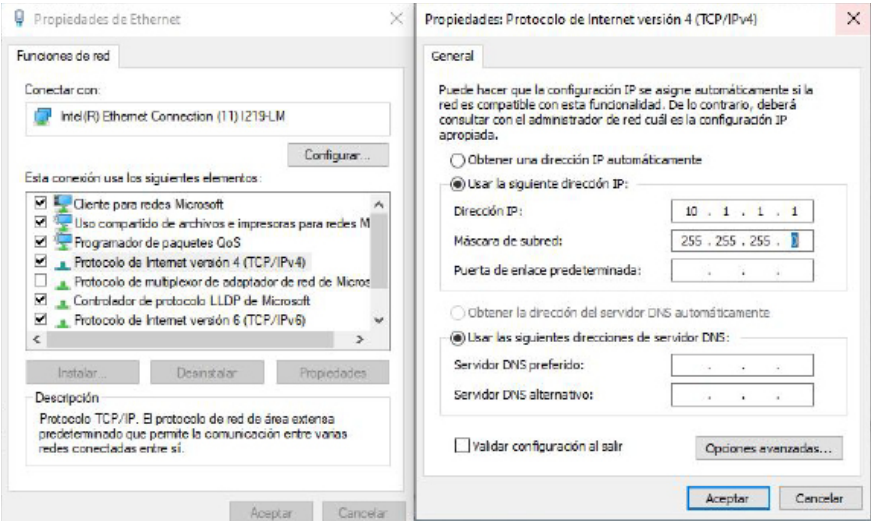
- **Connect** your computer to the GATE via the Ethernet cable



- **Turn on** the GATE



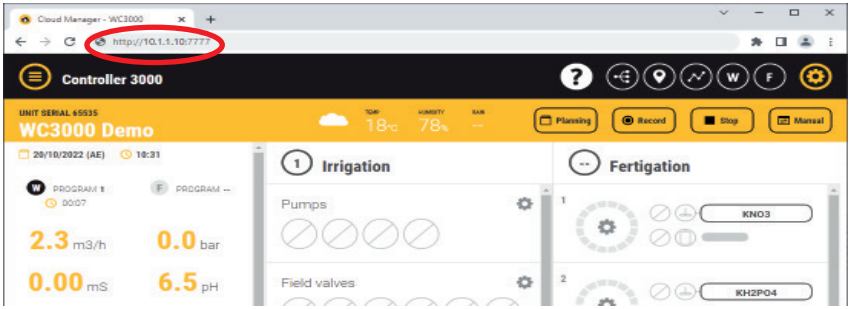
- **Configure the Ethernet adapter** on the computer with the following settings:
  - IP Address: 10.1.1.1
  - Subnet mask: 255.255.255.0
  - Default gateway: <leave blank>



NB: To find this setting:

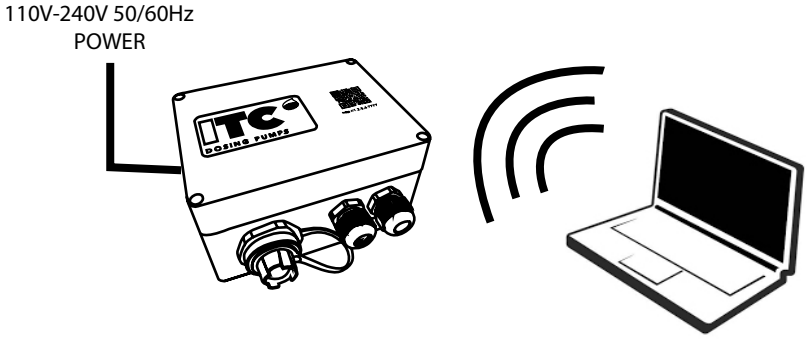
- In the Windows search box, open the Control Panel
- View by: Category -> Select "View network status and tasks", in the “Network and Internet” category.
- Identify your active network and click on "Ethernet".
- Then select "Properties".
- Search for the option “Internet Protocol version 4 (TCP/IPv4)” and then click on properties.
- Configure the Ethernet adapter on the computer with the settings described above.

- **Go to the GATE’s webpage** > http://10.1.1.10:7777

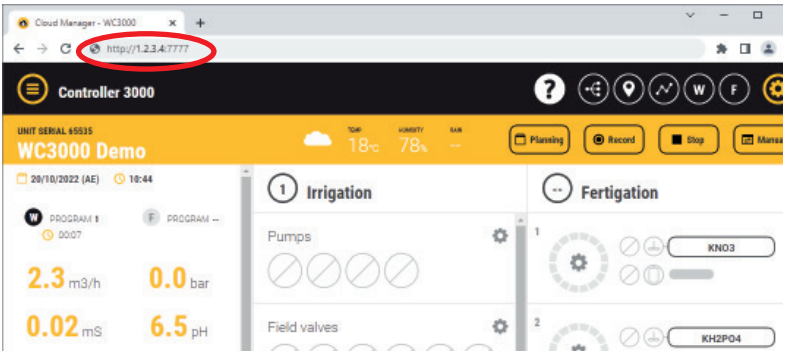


Ⓑ Via Wi-Fi

- **Connect to the GATE's Wi-Fi network** > "ITC GATE-xxxxxx" with the password "webscada".
Where "xxxxxx" > are the 6 digits of the GATE's serial number.

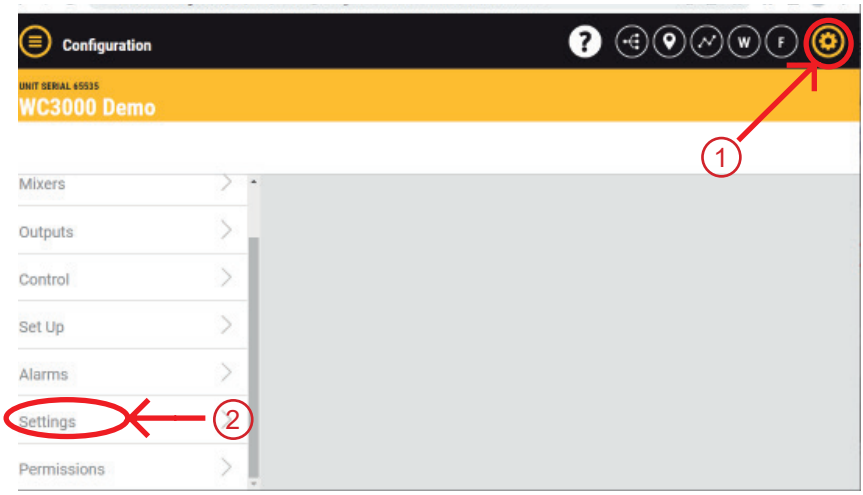


- **Go to the GATE's webpage** > http://1.2.3.4:7777

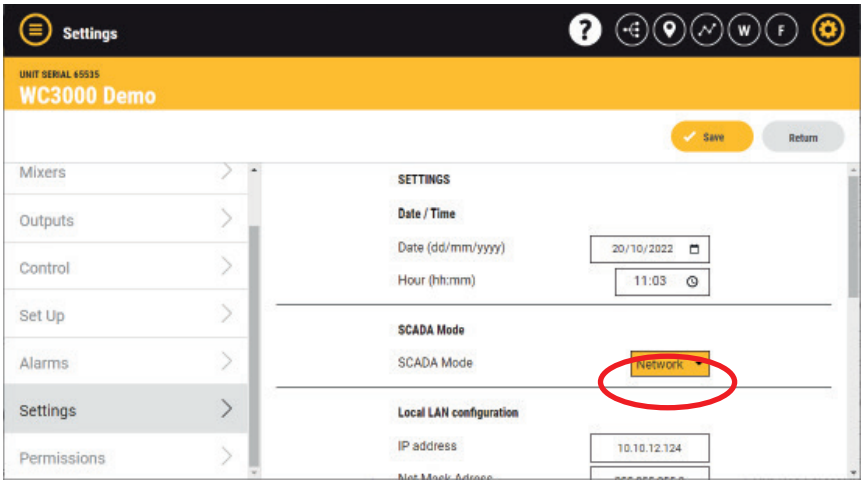


② The GATE's webpage

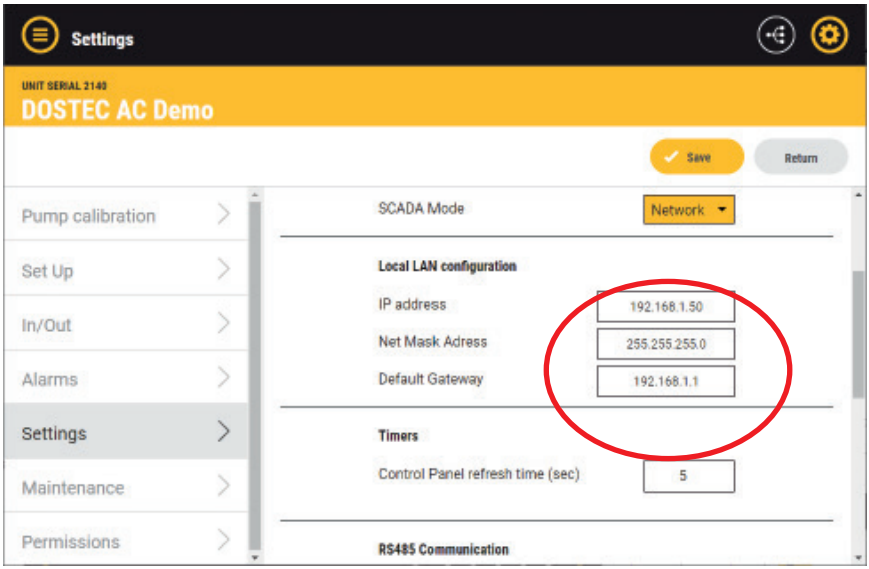
- Click on the "CONFIGURATION" icon ①
- Select "Settings"②



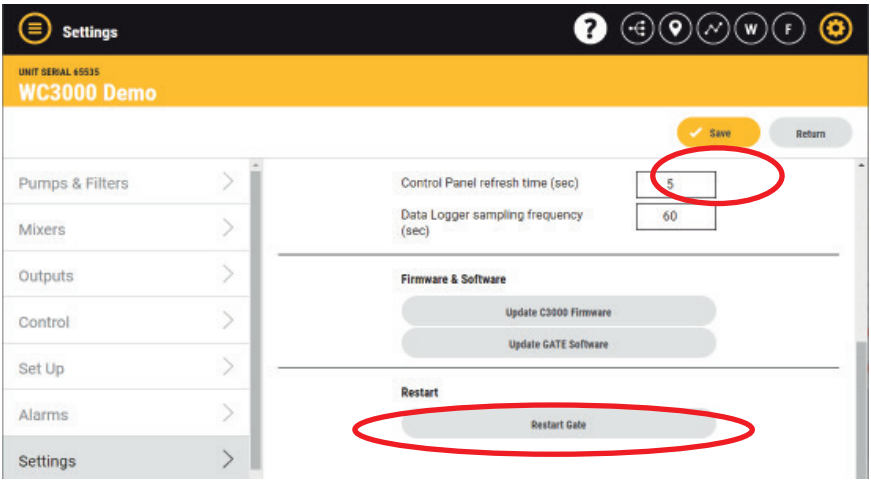
- **Configure "SCADA MODE"** in the "Network" option



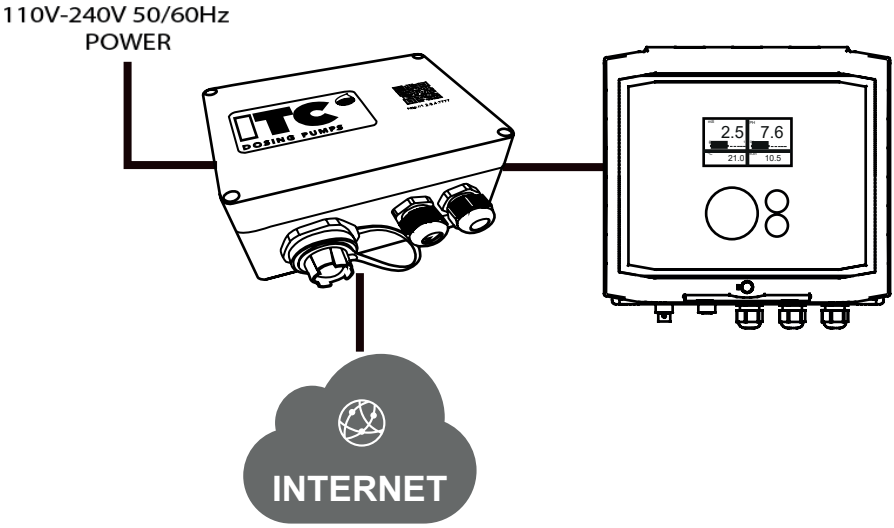
- In "Local LAN Configuration", **enter an IP address**, NetMask and Default Gateway, according to the available Local Network.



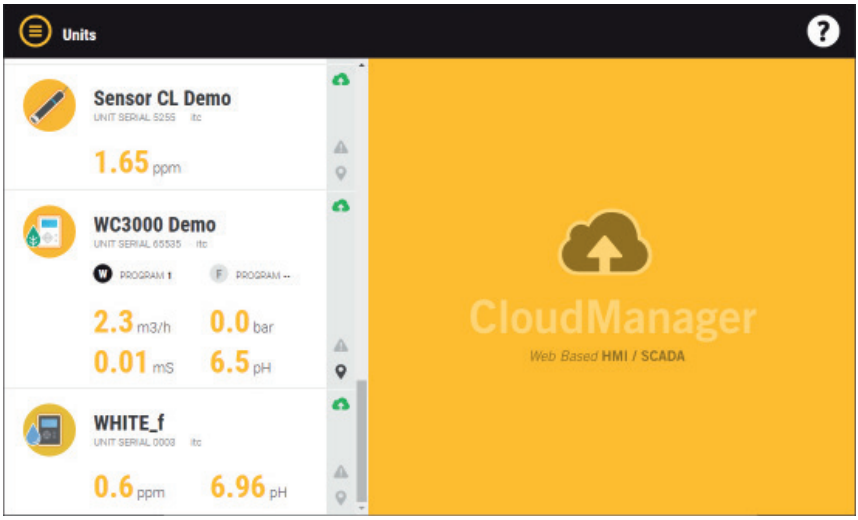
- **Select "Save"** and then "Restart Gate".



- Contact your provider to obtain your cloudmanager username and password.
- **Connect the GATE to the Router via Ethernet** (either directly or via a switch), and connect the controller via RS485. Wait for 3 minutes.



- **Visit** https://www.itc-cloud-manager.com to view the connected device.



7. MAINTENANCE

7.1 The unit is greyed out in cloudmanager

ERROR	CAUSE	*SOLUTION*
The GATE has no internet connection.	The internet service is not down.	*Contact your ISP.*
	The Ethernet cable is damaged or not working properly.	*Replace the Ethernet cable.*
	The GS5 jumper is not open.	*Open the GS5 jumper and wait for 5 - 10 minutes.*
	The GATE's internal Ethernet cable is damaged.	*Contact sat@itc.es*
The ITCGATE-xxxx network is not being detected.	The GATE's microSD card is not working properly.	*Replace the microSD card with another supplied by ITC.*
Incorrect SCADA MODE setting.	SCADA MODE is set to LOCAL.	*Change the SCADA MODE setting to "Network". See point 6. START-UP.*
Incorrect IP configuration.	Your IP settings are not configured correctly.	*Change the IP configuration. See point 6. START-UP.*

7.2 The unit is not being displayed in cloudmanager

ERROR	*SOLUTION*
The unit is not being displayed in cloudmanager.	***Contact your provider or sat@itc.es.***

7.3 The unit is shown in red in cloudmanager

ERROR	CAUSE	*SOLUTION*
The GATE is turned off.	It is not connected to the power supply.	*Connect the GATE to the power supply.*
The error keeps happening while connected to a WTR**TEC** / Dosmart / Dostec AC device.	The RS485 / Modbus configuration does not match the GATE's configuration.	*Follow your device's manual to change the RS485 / Modbus configuration.*
	The GS3 and GS4 jumpers are closed in version 4 of the board.	*Open the GS3 and GS4 jumpers.*
	The GS3 and GS4 jumpers are open in version 2 of the board.	*Close the GS3 and GS4 jumpers.*
	Bad RS485 cable connection between the GATE and the device.	*Connect the RS485 cable correctly.* *See point 5.2 Connection between devices.*
	The RS485 cable is close to other cables that generate too much noise.	*Try to separate the RS485 cable from any cables that may cause interference by generating noise.*
The error keeps happening while connected to a Controller 3000 series device.	The GS3 and GS4 jumpers are closed in version 4 of the board.	*Open the GS3 and GS4 jumpers.*
	The GS3 and GS4 jumpers are open in version 2 of the board.	*Close the GS3 and GS4 jumpers.*
	Bad RS485 cable connection between the GATE and the device.	*Connect the RS485 cable correctly.* *See point 5.2 Connection between devices.*
	The C3000's internal RS485 cable is poorly connected.	*Connect the cable correctly.*
	The RS485 cable is close to other cables that generate too much noise.	*Try to separate the RS485 cable from any cables that may cause interference by generating noise.*

EU DECLARATION OF CONFORMITY

CE

I.T.C S.L.
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Polígono Industrial Can Bernades-Subirà
08130 Santa Perpètua de Mogoda

Declares that the **GATE** products identified by their serial number and year of manufacture comply with the Low Voltage Directive 2014/35/EU and the Electromagnetic Compatibility Directive 2014/30/EU, provided that the installation, use and maintenance are performed in accordance with current legislation and the instructions provided in the instruction manual.

Xavier Corbella
Manager

WARRANTY

I.T.C. S.L. covers the product specified in this document with a warranty against all manufacturing or material defects for 1 year, provided that the device has been installed, used and maintained correctly.

The device must be sent free of charge to an approved workshop or to I.T.C. S.L.'s technical service, and it will be returned to you, cash on delivery.

The warranty document bearing the purchase date and the stamp of the establishment where the device was purchased, or a photocopy of the purchase invoice, must be sent alongside the device.

MODEL _____

SERIAL NO. _____

Purchase date and stamp of the establishment where the device was purchased

DATE: _____

Original manual

Ed: 20/12/2022-EN

ITC
DOSING PUMPS

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