





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





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...45°C / 32...113°F 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
Α	160	6.29
В	120	4.72
С	90	3.54



AVAILABLE MODELS

Code	Description
01-001	WC3000 communications module GATE.
01-002	WTRpro communications module GATE.
01-003	Cl420MB 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 B (via Ethernet and Wi-Fi) and remotely B (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
- \bigcirc 12 Vdc power supply
- (8) 110-240 V 50/60 Hz power supply

- D1 LED
 TLM device initialisation
 TLM device initialisation
 D1 LED
 TLM device initialisation
 TLM device initialisation
 D1 LED
 TLM device initialisation
 TLM
 TLM device initialisation
 TLM
 TLM
- 10 D2 LED
- 1) 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 (A) or (B)). You will need an internet connection to do it.

(A) Via Ethernet

- Connect your computer to the GATE via the Ethernet cable



- Turn on the GATE



Start-up

- 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>

Propiedades de Ethernet	\times	Propiedades: Protocolo de Internet versión	4 (TCP/IPv4)	
unciones de red		General		
Conectar con:		Puede hacer que la configuración IP se asign red es compatible con esta funcionalidad. De consultar con el administrador de red cuál es apropiada.	e automáticamente si la lo contrario, deberá la configuración IP	
	Configurar	Obtener una dirección IP automáticamen	nte	
ésta conexión usa los siguientes elementos:		🔘 Usar la siguiente dirección IP:		
 Ciente para redes Microsoft Uso compartido de archivos e impresoras 	para redes M	Dirección IP:	10 . 1 . 1 . 1	
🗹 🔄 Programador de paquetes QoS	Control Control	Máscara de subred: 2	55 . 255 . 255 . 🤰	
 Protocolo de Internet versión 4 (TCP/IPv-	4) red de Micros	Puerta de enlace predeterminada:		
 Controlador de protocolo LLDP de Micros Protocolo de Internet versión 6 (TCP/IPv/ 	oft 6) ¥	O Obtener la dirección del servidor DNS au	Itomáticamente	
<	>	- (e) Usar las siguientes direcciones de servic	or DNS:	
Instalar Desinstalar	Propiedades	Servidor DNS preferido:	1990 (M. 1980) (M. 1980)	
Descripción	100.0	Servidor DNS alternativo:		
Protocolo TCP/IP. El protocolo de red de área e predeterminado que permite la comunicación en redes conectadas entre sí.	axtensa ibre varias	Valdar configuración al salr	Optiones avanzadas	
Aceptar	Cancelar		Aceptar Cance	elar

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 > <u>http://10.1.1.10:7777</u>

O Cloud Manager - WC3000 x +		v – 🗆 х
← → C ③ http://10.1.1.10:7777		* 0 & 1
Controller 3000		? ᠃♥♥♥♥ ◎
UNIT SERIAL 65535 WC3000 Demo	- 18°c 78° -	Planning (Record) Stop (Manual
🗂 20/10/2022 (AE) 🕓 10:31	1 Irrigation	Fertigation
PROGRAM 1 F PROGRAM	Pumps	
2.3 m3/h 0.0 bar	0000	
0.00 ms 6.5 pH	Field valves	2 С. Кнаро4



B Via Wi-Fi

- **Connect to the GATE's Wi-Fi network** > "ITC GATE-xxxxxx" with the password "webscada". Where "xxxxxxx" > 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" $\operatorname{icon}^{\textcircled{1}}$
- Select "Settings"②

		? € ♥ ∞ ♥ ©
UNIT SERIAL 65535 WC3000 Demo		
		(1)
Mixers	> •	Č
Outputs	>	
Control	>	
Set Up	>	
Alarms	\geq	
Settings	-2	
Permissions	>	

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

Settings			? @ @ ~ w F 🙆
UNIT SERIAL 65535 WC3000 Demo			
			Save Return
Mixers	> •	SETTINGS	
Outputs	>	Date / Time	
Control	>	Date (dd/mm/yyyy) Hour (hh:mm)	20/10/2022
Set Up	> -	SCADA Mode	
Alarms	>	SCADA Mode	Network
Settings	>	Local LAN configuration	
Permissions	>	IP address	10.10.12.124
T STITISTICS	· ·	Net Mack Advace	



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

Settings				۲
UNIT SERIAL 2140 DOSTEC AC De	mo			
			Save	Return
Pump calibration	>	SCADA Mode	Network 🔻	
Set Up	>	Local LAN configuration		
In/Out	5	IP address	192.168.1.50	
in, our		Net Mask Adress	255.255.255.0	
Alarms	>	Default Gateway	192.168.1.1	
Settings	>	Timers		
Maintenance	>	Control Panel refresh time (sec)	5	
Permissions	> -	R\$485 Communication	S. 21	

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

Settings		? @ @ ~ w F 🙆
UNIT SERIAL 65535 WC3000 Demo		
		Save Return
Pumps & Filters	> 1	Control Panel refresh time (sec) 5
Mixers	>	Data Logger sampling frequency 60 (sec)
Outputs	>	Firmware & Software
Control	>	Update CS000 Firmware
Set Up	>	Updale GATE Software
Alarms	>	Restart Restart Gate
Settings	>	



- 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	The internet service is not down.	Contact your ISP.
connection.	The Ethernet cable is damaged or	Replace the Ethernet cable.
	not working properly.	
	The GS5 jumper is not open.	Open the GS5 jumper and wait
		for 5 - 10 minutes.
	The GATE's internal Ethernet	Contact sat@itc.es
	cable is damaged.	
The ITCGATE-xxxx network	The GATE's microSD card is not	Replace the microSD card with
is not being detected.	working properly.	another supplied by ITC.
Incorrect SCADA MODE	SCADA MODE is set to LOCAL.	Change the SCADA MODE
setting.		setting to "Network".
		See point 6. START-UP.
Incorrect IP configuration.	Your IP settings are not configured	Change the IP configuration.
	correctly.	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.

Maintenance

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

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EU DECLARATION OF CONFORMITY

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I.T.C S.L. Vallès, 26 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

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:







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