EURA DRIVES GMBH
SPANISH BRANCH

TECHNICAL ASSISTANCE SERVICE ES / PT / FR
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EURA-TITAN

SIMPLE TELECONTROL FOR INVERTERS WITH INTEGRATED *PumpSoft*

QUICK USER'S GUIDE

STAND-ALONE SYSTEM FOR REMOTE CONTROL OF VARIABLE SPEED DRIVES BY MEANS OF SMS MESSAGES VIA GSM SIM

Version 1.0a_EN

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IMPORTANT INFORMATION :

EURA-TITAN. is a solution aimed at simple remote control of an **EURA DRIVES** variable frequency drive (*VFD*), allowing simple tasks to be carried out in a remote irrigation system by means of short mobile phone messages (*SMS*).

It will therefore be possible, through *SMS* commands (using the *gsm/gprs* (*2G/3G/4G*) network) to perform the following actions:

- Assignment of up to 6 mobile phone numbers, for the management operators of the various options allowed.
- (Only the telephone assigned as the first operator can change the telephone numbers of the operators).
- Configure the operation of the various notifications and operation of the programme.
- (Only the telephone assigned as the first operator can manage **EURA-TITAN**).
- Remote activation and deactivation of irrigation controlled by the *VFD*.
- Assignment of the main setpoint (SetPoint = *SP*), and the 3 auxiliary setpoints (if these are used).
- Query the status of the irrigation system.
- Reset an alarm, allowing the *VFD* to resume operation without anomalies.
- Activate the relay output to start the generator.
- ... If you have any additional requirements, please contact us.

This document contains technical information concerning the use of the product, please read it carefully before starting the installation of the device.
We reserve the right to make any changes or modifications to this document without prior notice.

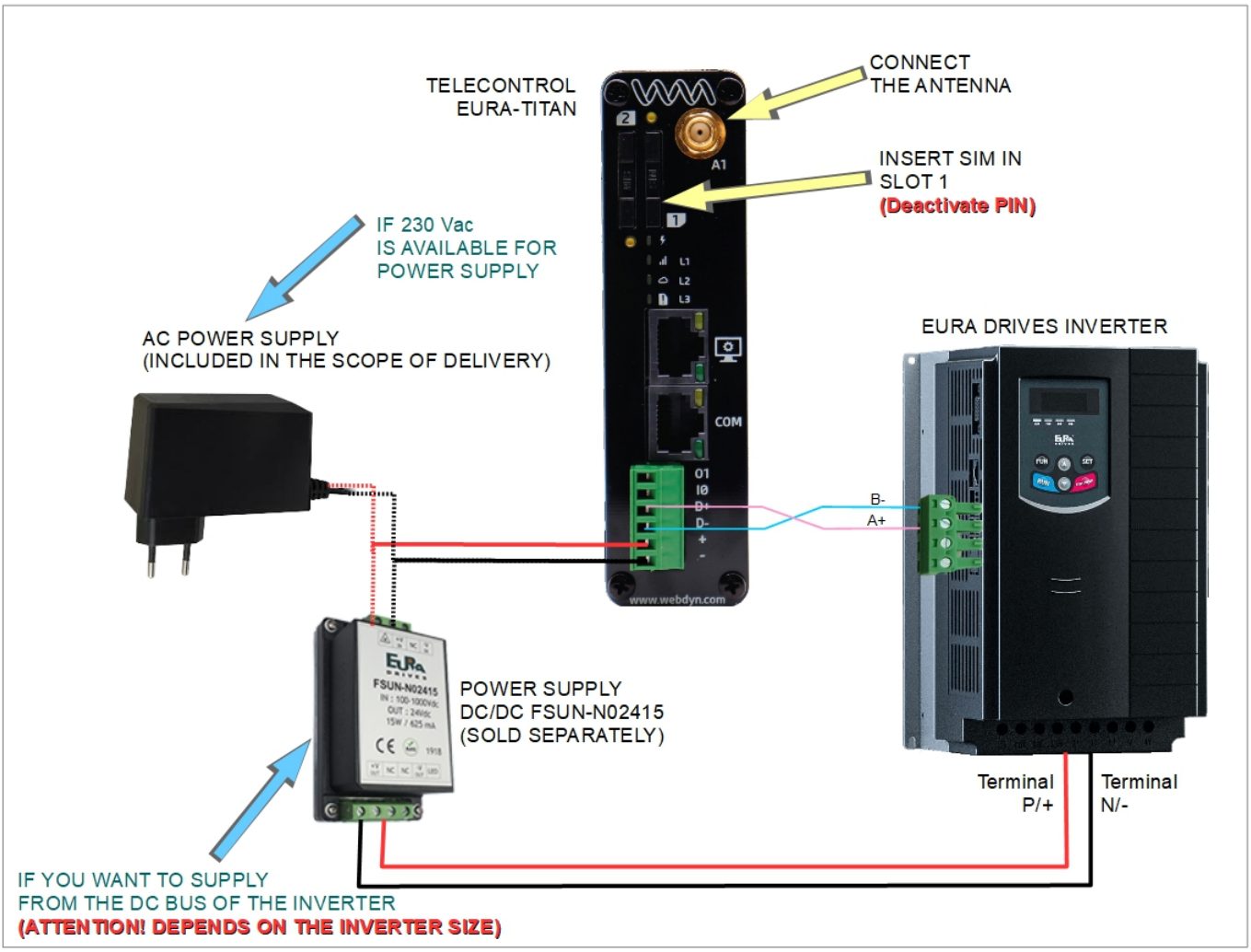
	Only touch the external connectors of the unit and avoid touching any internal components of the device board.

Safety instructions.

	Observe the regulations in force when using live equipment.

Make sure that the device is disconnected from the power supply or that the power supply is not connected to the mains before handling the device.
You should only handle the unit by making sure that the power supply is disconnected from the mains and the module. You should also allow a short period of time for the internal components that can store electrical charge to fully discharge.
Regularly check the condition of the cables connected to the device to ensure that they are not damaged, especially the insulation. If you notice any cables whose insulation is in poor condition, replace them immediately.
Before putting the unit into operation, you must know the correct wiring of all the elements that make up the solution. In case of doubt, please consult your dealer or contact us directly.
We cannot be held responsible for any possible damage caused to the device by incorrect connection or any other incident resulting from incorrect connection.
The *GSM* unit can only work with DC voltage values between 7 and 30 volts. Do not expose the device to voltages above 30 Vdc.
Make sure that modem devices are allowed in the area where the unit is located. The use of cellular mobile phone network communications devices may be hazardous if used in the vicinity of electronic devices intended for personal or medical use only.
The unit should not be used in airports, aeroplanes and hospitals without prior consultation.
Never use the device in fuel filling stations or any other environment where explosive atmospheres may exist.
Operating the modem in conjunction with other devices such as televisions, antennas or radio stations may cause electromagnetic interference.
Remember to respect a minimum distance of 20 cm between the device and any person who may be within the same environment. In applications where this distance cannot be applied, it is the installer's responsibility to provide the corresponding *SAR* (Specific Absorption Rate) measurement test and report.
It is also the responsibility of the installer to respect the regulations in force within the place of installation of the product.

WIRING TO BE CARRIED OUT :



No cable is included in the scope of delivery of the telecontrol EURA-TITAN.

Communications parameters to be set in the VFD EURA DRIVES : F901=2 – F902=2 – F903=0 – F904=6 – F905=0.0 - F907=0.0

MENSAJES DE CONTROL :

THE EURA-TITAN GSM UNIT CAN BE DELIVERED PROGRAMMED AND TESTED, USING THE SIM CARD (SENT BY THE CUSTOMER) AND THE CONNECTION DATA YOU HAVE PROVIDED, OR YOU CAN DO IT POSTERIORLY VIA SMS's FROM THE SAT.

SUMMARY OF CONTROL MESSAGES :

Message	Operator	Instruction / Action	Response
status	1 to 6	Send : **status** Request for general status of irrigation system	* Depending on the status of the VDF : ‣ Message to sender with drive on RUN ‣ Message to sender with drive on STOP
start **on**	1to 6	Send : **start** or **on** It puts the irrigation system in operation	‣ Action confirmation message to sender
stop **off**	1 to 6	Send : **stop** or **off** Stops irrigation system operation	‣ Action confirmation message to sender
reset	1 to 6	Send : **reset** Resets the inverter alarm	‣ Action confirmation message to sender

Message	Operator	Instruction / Action	Response
reboot	1 to 6	Send : **reboot** Perform GSM reset **EURA-TITAN**. (Reactivation takes approximately 2 min.)	▸ Action confirmation message to sender + message informing of delay in reactivation (also to operator 1)
f114=	1 to 6	Send : **f114**=*ss.d* (range 0.1 ~3000.0 seconds) Set the acceleration ramp to the value *ss.d*	▸ Action confirmation message to sender
f115=	1 to 6	Send : **f115**=*ss.d* (range 0.1 ~3000.0 seconds) Set the deceleration ramp to the value *ss.d*	▸ Action confirmation message to sender
viewsp	1 to 6	Send : **viewsp** Request for adjustments of **SP**, **SP2**, **SP3** y **SP4**	▸ Information message to the sender with the current values ordered
sp=	1 (2 to 6 if author. param4)	Send : **sp**=*nn.d* (range 0.0 ~ **FA03**) Sets the main setpoint to the value sent in *nn.d* ⚠ The administrator (operator 1) can restrict this action to other operators.	* Depending on the setting value sent : ▸ Confirmation message to sender ▸ Message to sender of error in setting
sp2=	1 (2 to 6 if author. param4)	Send : **sp2**=*nn.d* (range 0.0 ~ **FA03**) Sets the auxiliar setpoint 2 to the value sent in *nn.d* ⚠ The administrator (operator 1) can restrict this action to other operators.	* Depending on the setting value sent : ▸ Confirmation message to sender ▸ Message to sender of error in setting
sp3=	1 (2 to 6 if author. param4)	Enviar : **sp3**=*nn.d* (range 0.0 ~ **FA03**) Sets the auxiliar setpoint 3 to the value sent in *nn.d* ⚠ The administrator (operator 1) can restrict this action to other operators.	* Depending on the setting value sent : ▸ Confirmation message to sender ▸ Message to sender of error in setting
sp4=	1 (2 to 6 if author. param4)	Send : **sp4**=*nn.d* (range 0.0 ~ **FA03**) Sets the auxiliar setpoint 4 to the value sent in *nn.d* ⚠ The administrator (operator 1) can restrict this action to other operators.	* Depending on the setting value sent : ▸ Confirmation message to sender ▸ Message to sender of error in setting
smsx=	1 only	Send : **smsx**=*+34123456789* (where x is a value from 1 to 6) Assigns the telephone number sent to the memory location assigned to operator x. ⚠ Only the administrator (operator 1) can assign telephone numbers. ⚠ Indicate country identifier for telephone numbers sent.	* Depending on the operator : ▸ Confirmation message to sender ⚠ + send **reboot** message. (If several **smsx**= messages are sent, send **reboot** after assigning the last one) ▸ Message to sender of rejection by unauthorised operator
group=xx	1 (2 to 6 if author. param2)	Send : **group**=*xx* (*xx*= ON or OFF) If *xx*=*on* = Activates the assigned output to activate the genset. If *xx*=*off* = Deactivates the assigned output to activate the genset. ⚠ The administrator (operator 1) can restrict this action to other operators. ⚠ You must have parameter 21 (*Modbus 2005h*) in **F300** if you use the relay output or in **F301** for DO1, or in **F302** for DO2 (DO2 depending on drive size).	* Depending on the operator : ▸ Message to sender confirming action (also to operator 1, if param2=1) ▸ Message to sender of rejection by unauthorised operator
Param	1 only	Send : **param** Request the status of the administrator settings and the script version of the **EURA-TITAN**. ⚠ Restricted to the administrator (operator 1).	* Depending on the operator : ▸ Message to the informative sender with the established settings ▸ Message to sender of rejection by unauthorised operator

Message	Operator	Instruction / Action	Response
Paramx=	1 only	Send : **paramx=n** (being *x* a value from 1 to 4 param1= Not used in this version param2= Allow operators <>1 to start the group = 0 = Do not permit = 1 = Permit param3= *VFD* alarm notifications = 0 = Operator 1 only = 1 = To all registered operators param4= Allow operators <>1 to change SP's = 0 = Permit = 1 = Do not permit ⚠ Restricted to the administrator (operator 1). ⚠ By default, all **paramx** are set to 0.	* Depending on the operator and value sent: ‣ Action confirmation message to sender ‣ Message to sender of error in setting ‣ Message to sender of rejection by unauthorised operator

ℹ Messages sent to **EURA-TITAN**. can be combined at will, upper and/or lower case

ALARM INFORMATION MESSAGES :

Table of error messages that **EURA-TITAN** will send in each case.

Code	Message received	Remedial action
2:OC	Inverter with alarm OC : Overcurrent	Increase the time of Ac./Deac. Check the motor wiring. Check the mechanical system. Reduce the starting torque. Check motor parameters
3:OE	Inverter with alarm OE : Overvoltage	Check the voltage input. Correct Rated voltage of the inverter. Use braking resistors. Increase the deceleration time.
4:PF1	Inverter with alarm PF1 : Lack of phase in the input	Check network entry.
5:OL1	Inverter with alarm OL1 : Overload	Reduce the power Check the dimensioning of the equipment.
6:LU	Inverter with alarm LU : Low voltage	Check network supply
7:OH	Inverter with alarm OH : Inverter overheating	Check environmental working conditions. Check the parameterization Check the drive assembly.
8:OL2	Inverter with alarm OL2 : Motor overheating	Reduce the load Check the dimensioning of the equipment .
11:ESP	Inverter with alarm ESP : External alarm	Disconnect external emergency condition, emergency button, safety curtain, etc.
12:Err3	Inverter with alarm ERR3 : Overcurrent at STOP	Visual inspection of the inverter and the installation. Contact **EURA Service-Center**
15:Err4	Inverter with alarm ERR4 : Current sensor error	Visual inspection of the inverter. Contact **EURA Service-Center**
16:OC1	Inverter with alarm OC1 : Software overcurrent	Increase the time of Ac./Deac. Check the motor wiring. Check the mechanical system. Reduce the starting torque. Check motor parameters.

Code	Message received	Remedial action
17:PF0	Inverter with alarm PF0 : Problem in phase at the output	Check motor and wiring.
18:AErr	Inverter with alarm AErr : Analog signal interruption	Check the wiring. Review the correct programming of the minimum limit. Check the analog input signal.
20:EP	Inverter with alarm EP : Low water load	Review of mechanics. Reset the water supply.
22:nP	Inverter with alarm nP : Overpressure	Faulty Pump Control Settings. Check water supply.
23:Err5	Inverter with alarm Err5 : PID faillure	Review incorrect parameterization of the ***PID***
25:EP4	Inverter with alarm EP4 : Dry running	Check admission circuit to the pump (s). Check that the inlet valves are open. Check that there is water in the inlet pipe.
35:OH1	Inverter with alarm OH1 : Motor overheated	Check the motor .
45:CE	Inverter with alarm CE : Excessive waiting time in communications	Check ***MODBUS*** wiring. Check ***MODBUS*** parameterization
47:EEP	Inverter with alarm EEP : EEprom failure	Contact **EURA Service-Center**
49:Err6	Inverter with alarm Err6 : Whatchdog failure	Check the ***Watchdog*** in the assigned digital input
56:nP1	Inverter with alarm nP : Overpressure IN1	Faulty Pump Control Settings. Check water supply.
57:EP5	Inverter with alarm EP5 : Dry running IN1	Check admission circuit to the pump (s). Check that the inlet valves are open. Check that there is water in the inlet pipe.
58:AEr0	Inverter with alarm AEr0 : IN2 sensor signal failure	Check the wiring. Check the sensor connected to ***IN2***.
67:OC2	Inverter with alarm OC2 : Software overcurrent	Increase the time of Ac./Deac. Check the motor wiring. Check the mechanical system. Reduce the starting torque. Check motor parameters.
69:EP6	Inverter with alarm EP6 : Water leak detected	Check pipes. Check obstruction in the circuit or semi-closed valves.
71:FILL	Inverter with alarm FILL : Pipeline filling failed	Check pipeline installation .
73:AEr1	Inverter with alarm AEr1 : Sensor signal failure IN1	Check the wiring. Check the sensor connected to ***IN1***.
74:ArT0	Inverter with alarm ArT0 : Time control parameters failure	Review the parameters of section **FDxx**.
75:ErJA	Inverter with alarm ErJA : Pump jammed	Check that there is no solid body blocking the rotation of the pump.
	Inverter with undefined alarm...	Inverter does not respond or perceived alarm is not documented

In order to be processed by all telephone companies, none of the texts sent by EURA-TITAN are accented.

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PERSONAL NOTES :