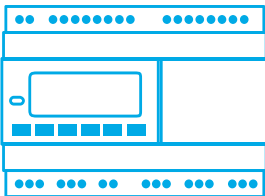




▶ REMOTE PLC

▶ SMS COMMANDS GUIDE



em4 alert

Nano-PLC that can alert you via SMS or email

	Event management via SMS or email	Receive an SMS or an email when an event occurs in your application
	Data report via SMS and datalogs via email or FTP	Periodically receive reports by SMS or email, or .csv files via email or FTP
	Monitoring and control functions via SMS	Remotely display or control data values with SMS
	PLC to PLC SMS communication	Exchange data by SMS from one PLC to another
	Remote directory management	Remotely manage phone numbers and email addresses with SMS
	Remote application program update	Remotely update your application program with FTP server and SMS commands

READ / WRITE DATA WITH XB, XW FUNCTION BLOCKS

The function blocks XBIN, XWIN allow to read and write variables

The function blocks XBOU, XWOU allow to only read variables

Type	Syntax	Request example	Response example
▶ XBIN	Read	Label?	PumpControl?
	Write	Label=[dgt]	PumpControl=ON

Type	Syntax	Request example	Response example
▶ XWIN	Read	Label?	Max-Ext-Temperature?
	Write	Label=[val]	Pressure-Setpoint=15.00

Type	Syntax	Request example	Response example
▶ XBOU	Read	Label?	AccessControl?
			AccessControl :ON;

Type	Syntax	Request example	Response example
▶ XWOU	Read	Label?	AccessCounter?
			AccessCounter :235;

It is possible to send multiple commands in a single SMS. Example:

- › PumpControl=ON; PumpControl=OFF; (Rising/Flank command)
- › Max-temperature?; AccessCounter?;
- › Max-temperature?; PumpControl=ON;

Other commands can receive datalogs and remotely update the application programs and manage your directory.

For more detailed information, please visit our software Help or our library at: www.em4-remote-plc.com/support

MAIN SYSTEM COMMANDS

- ▶ **RUN** › Allows to start user application without initialization

Type	Syntax	Request example	Response example
Write	em4+run;	em4+run	em4+run :RUN;

- ▶ **RUNWI** › Allows to start user application with initialization

Type	Syntax	Request example	Response example
Write	em4+runwi;	em4+runwi	em4+runwi :RUN;

- ▶ **STOP** › Allows to stop user application

Type	Syntax	Request example	Response example
Write	em4+stop;	em4+stop	em4+stop :STOP;

- ▶ **STATE** › Allows to know if the application is started or stopped

Type	Syntax	Request example	Response example
Read	em4+state?	em4+state?	em4+state :RUN;

- ▶ **DEFAULT** › Allows to read the em4 default code

Type	Syntax	Request example	Response example
Read	em4+default?	em4+default?	em4+default :0;

- ▶ **CLOCK** › Allows to read and write the date and hour of the em4

Type	Syntax	Request example	Response example
Read	em4+clock?	em4+clock?	em4+clock :«15/09/30, 10:05:30 »
Write	em4+clock=[time]	em4+clock=«15/09/30 , 10:15:30»	em4+clock :«15/09/30, 10:15:30»

Note: for this command the date format is “yy/mm/dd, hh:mm:ss”

- ▶ **RESETLOG** › Allows to delete datalogs stored in the em4

Type	Syntax	Request example	Response example
Write	em4+resetlog;	em4+resetlog	em4+resetlog :SUCCESS;

DIRECTORY MANAGEMENT

▶ DIRECTORY › You need to be an administrator to modify the directory

Type	Syntax	Request example	Response example
Get	em4+contact?[name];	em4+contact?user1;	em4+contact: user1, +33671xxxxxx, user1@mail.com, Operator;
Set	em4+contact=[name], [phone number], [email];	em4+contact=user1, +33672xxxxxx, user1@email.com	em4+contact: user1, +33672xxxxxx, user1@email.com, Operator;

*Profile can be user, operator or administrator
(up to 3 administrators and 20 contacts maximum)*

CONTROLLER COMMUNICATION SETTINGS

The screenshot shows a configuration window with tabs for MODBUS, GSM/GPRS, SMTP, FTP, and Archive datalog. The 'GSM/GPRS' tab is active. It contains several input fields: 'PIN code' with the value '0000', 'N° SMS Server', 'Access Point Name (APN)', 'Login', and 'Password'. On the right side, there is a checkbox labeled 'MODBUS' which is unchecked, and three buttons: 'OK', 'Cancel', and a question mark '?'.

- › To configure your communication settings: click on communication tab and select «GSM/GPRS»
- › Inform all the fields depending on your mobile and webhosting provider
- › If you want to exchange SMS, you only need to fill in the PIN code
- › If you want to send emails you need a **data SIM card** and setup the APN field and SMTP tab

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