

Datalogger for Irrigation Monitoring

iLOGS Datalogger is a data acquisition system that records, manages and sends information via GSM/SMS/GPRS/3G.

Irrigation associations use water from public sources and are often obliged to report periodically water consumption information to the administration. It is known that nowadays more and more Water Administrations are requesting a wireless communication of this data for this purpose, the **iLOGS46 Datalogger** is a fantastic instrument. Reads and records the data coming from water meters and sends it by GSM/SMS/GPRS/3G to a control room.

With this solution, it is warranted that every data recorded from the water meters is sent to the Water Administration quickly and safely for analysis.

Moreover, it is possible to pre-set alarms to alert the user over anomalies in real time.



ACQUISITION

PROCESS / COMMUNICATION

MONITORING

Water meter

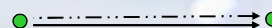
Solenoid electrovalve

Acting on valve

Pulse signal



GSM/SMS/GPRS/3G



History data



iCONF46XGE80

iSOFT46XGE81

General characteristics



iLOGS46

Data and alarms via GSM/SMS/GPRS

E-mails and massive SMS

Up to 16 Digital / Analog Inputs / Outputs

Up to 6 years of autonomy powered by batteries and external power supply option

IP67 and IP68, ruggedness

Monitoring Software compatible with other SCADAs

High data storage capacity

Remote reconfiguration and firmware reprogramming

SMS alarms to unlimited numbers from software

PHYSICAL & ENVIRONMENTAL

Enclosure	IP67 or IP68 (optional).
Dimensions	180x130x50 (depends on the model).
Weight	500 grams (depends on the model).
Temperature	-20°C to +60°C.
Humidity	95% (external condensation).

POWER SUPPLY

Internal battery	Internal lithium battery: up to 7,2V – 28Ah (6 years of autonomy - 5min/day GSM/GPRS).
External power supply	12Vdc.

INPUTS/OUTPUTS

Local Inputs	8 Digital dry contact Inputs / 4 Analogic Inputs 4-20mA or 0-10V (12 bits). 4 Counters V & Q edge triggered. (Frequency 10 Hz).
Remote Inputs	8 Digital Inputs (MODBUS RTU) / 2 Analogic Inputs (MODBUS RTU).
Outputs	2 bi-stable latch Digital Outputs. U/O Dry contact (max 2A). 1 24Vdc Output (50 mA max).
COM port	RS232 & RS485 MODBUS RTU. (9600 bauds, 8bits, 1 bit of stop and no parity).
I/O Options	- 4 Dig. Inputs + 2 Analog Inputs / 1 24Vdc Output - 4 Dig. Inputs + 2 Analog Inputs / 2 Dig. Outputs + 1 24Vdc Output - 8 Dig. Inputs + 4 Analog Inputs / 1 24Vdc Output - 8 Dig. Inputs + 4 Analog Inputs / 2 Dig. Outputs + 1 24Vdc Output

COMMUNICATIONS

GSM/GPRS/SMS/3G Modem	850/900/1800/1900/2100 MHz. GSM/GPRS/3G Quad Band Modem
GSM/GPRS/SMS/3G Master	The unit executes a call to dump the history log or send a GSM/GPRS/SMS alarm/message.
GSM/GPRS/SMS/3G Slave	GSM/GPRS reception for interrogation or remote synchronisation/reconfiguration.

KEYPAD OPTION

Leds	Task (green).Communication (amber). Status (red).
Push-buttons	Configurables, for maintenance and start up.

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