



Data Loggers SolarSAT

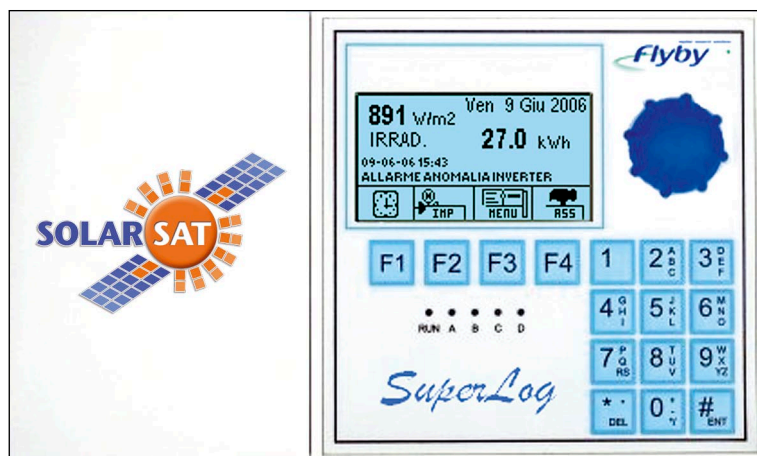
Available in three models: **SuperLog**, **LightLog** and **EasyLog**.

Each model allows to:

- control photovoltaic plants by interfacing to the majority of inverter models available in the market
- transmit data via modem GPRS or via Ethernet to the control station SolarSAT
- remotely display the stored data through PPP link, by exploiting an internal server with HTML pages accessible by means of a common Internet browser
- display and download data locally on a dedicated palmtop, through RS-232 port

SuperLog and **LightLog** models also allow to acquire meteo sensors data (irradiance, temperature, wind speed and direction). **SuperLog** has a LCD graphic display too.

A family of data loggers
for the remote control
of every type
of photovoltaic plant



Data Logger SuperLog

SuperLog

This model is mainly conceived for the monitoring of large size plants, with the possibility to manage a great number of sensors (with 8 analog inputs, 8 digital inputs) and inverter networks (with 2 RS-485 ports). The graphic user interface (GUI), made of a graphic LCD (128x64 pixel) and function buttons, allows the user to access locally the sensors data, inverters data and information regarding the plant status. By the SolarSAT control station, a remote user interface allows to operate the Data Logger as being at the place.

LightLog

This model allows the management of the most important sensors, thanks to 4 analog inputs and 4 digital inputs. It is proposed in three versions, G, E, GE, which differ by the type of connection: with modem GPRS only, with Ethernet port only, or with both. It is equipped with a Secure Digital (SD) slot of 32 MByte, for daily log data storage.

EasyLog

The compact and low-cost model. The data logger has 2 digital inputs for interfacing the pulse counter S0 standard and an RS-485 port for communicating with the inverter. Like the other models it allows the remote transmission of data and their local download. Since it is used with no sensor, this model works exclusively with the SolarSAT service where the solar irradiance is determined from satellite data.



Basic characteristics

	SuperLog	LightLog	EasyLog
CPU	CMOS RISC Motorola MCF5272	CMOS RISC Motorola MCF5208	CMOS RISC Motorola MCF5208
Basic SW	RTOS + file system + TCP/IP + dedicated tasks	RTOS + file system + TCP/IP + dedicated tasks	RTOS + file system + TCP/IP + dedicated tasks
Case/Dimensions	wall mount 200 x 120 x 36 mm	DIN rail – 9 units	DIN rail – 9 units
Supply	110/220VAC or 18-36 Vdc	110/220VAC or 18-36 Vdc	110/220VAC or 18-36 Vdc
Peripherals supply	20-36 Vdc@100 mA	20-36 Vdc@100 mA	-
LCD display	X	-	-

Inputs & outputs

	SuperLog	LightLog	EasyLog
Opto-Isolated Digital Inputs	8(*)	4	2
Configurable Analog Inputs (0÷1V, 0÷5V, 0÷10V, PT100, PT1000)	8	4	-
Open Collector Digital Outputs (500 mA@24Vdc)	8	2	-
Configurable Analog Outputs (0÷5V, 0÷10V)	2	-	-
Expansion slot	X	-	-
SBUS (**)	-	X	X

(*) 2 predisposed for counting up to 100 KHz

(**) communication bus for up to 200 meters distance for I/O. Includes also 12 V supply with a current up to 100 mA

Communication ports

	SuperLog	LightLog			EasyLog
		E	G	GE	
Integrated GPRS modem	X	-	X	X	X
Ethernet 100Mbit/s	X	X	-	X	-
RS-485 for inverters	X	X	X	X	X
RS-485 for other devices	X	-	-	-	-
RS-232 for dedicated palmtop	X	X	X	X	X

Memory

	SuperLog	LightLog	EasyLog
512 KByte static RAM Lithium back-up	X	X	X
2 MByte Flash memory	X	X	X
8 MByte dynamic RAM	X	X	X
SD type memory (32 MB)	(*)	X	-

(*) Optional