

# S7841 EVENT LOGGER WITH FOUR BINARY INPUTS

## Applications:

- record of door opening / closing
- monitoring of functions of a machine
- record of technological processes
- record of running hours of a machine

Event logger records beginning and end of monitored event by sensing logical state of signal coming to its input from monitored object.

It is possible to download recorded values to the PC by a communication adapter.

## Advantages:

- Variability of PC connectivity - RS232, USB, Ethernet, GSM modem.
- Permanent connection to the PC enabled, data is possible to download even during logging.
- Large dual line display, switchable.
- Robust case, easy installation, locking enabled.
- Low power consumption from battery, battery life up to 4 years.
- Indication of remaining battery life, easy replacement of the battery.
- Logging start/stop is enabled in several ways: at certain time and date programmed from computer, by delivered magnet or depending on logical state on channel 4 input.
- Each logical state is possible to describe from the PC with the text of maximum 8 characters. Description is used on the list of the recorded values.
- Each logger is possible to describe with text of maximum 32 characters.
- Each channel is possible to describe with text of maximum 16 characters.
- Password protection is enabled to prevent unauthorized manipulation with logger.



Sxxxx Rxxxx Gxxxx

## TECHNICAL PARAMETERS

Number of binary inputs:	4
Input signals:	from potential-less contact or two-state voltage signal - selection by the switch
Parameters of the potential-less contact input:	
- minimum pulse duration:	500 ms (shorter pulses may not be recorded)
- max.number of changes at input:	maximum 20 changes on all inputs in 10s interval
- current through closed contact:	5 $\mu$ A
- voltage at open contact:	< 3.6 V
- maximum voltage at the input:	$\pm$ 30 V
Parameters of voltage input:	inputs are mutually galvanically isolated
- minimum pulse duration:	500 ms (shorter pulses may not be recorded)
- max.number of changes at input:	maximum 20 changes on all inputs in 10s interval
- low voltage level:	0 to +2.0 V
- high voltage level:	+4.5 to +30.0 V
- current to the input:	maximum 1.5 mA at 30V
Terminal of input signals:	removeable WAGO 734, maximum cross section of leads 1,5mm <sup>2</sup>
Data logging modes:	noncyclic – logging stops after filling the memory cyclic – after filling memory oldest data is overwritten by new
Memory capacity:	noncyclic record - 16254 input signal changes cyclic mode - 15778 input signal changes
Real time clock:	integrated calendar including leap years
Real time clock error:	< 200 ppm (i.e. 0.02%, 17.28 s in 24 h)
LCD display refresh:	5 s
Communication with the PC:	via RS232 by means of COM adapter via USB by means of USB adapter via Ethernet by means of LAN adapter

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Operating temperature range:	-30 to +70 °C
Power:	Lithium battery 3,6V, size AA, typical life 4 years, indication of remaining life
Dimensions without terminals:	93 x 64 x 29 mm
Weight:	130g
Protection:	IP20
Warranty:	2 years

**No accessories is included.** For basic use it is necessary to order at minimum a COM adapter or USB adapter for communication with computer, optionally a start/stop magnet, if needed to control record the different way than directly from computer or by logical state on channel 4 input.

**Included accessories:** battery, free program for Windows is ready to download from [www.cometsystem.cz](http://www.cometsystem.cz). Program enables to control all logger functions and viewing and printing of record in numerical and simple graphic format. It is possible to export logged values to dbf or txt formats for further analysis.

**Optional accessory:**

- SWR004 - optional software for Windows** color print, vertical and time zooming of graphs and other functions
- DBL Logger Program** - database program for work with data from Comet loggers. Program enables i.a.:
  - To set locally the GSM modem via RS232 link by means of QMS2901 cable.
  - To view selected channels from any Comet logger together with selected channels of other Comet loggers.
  - Measurement from different Comet devices is possible to combine in one table or graph.
  - To choose any time interval for analysis, print or export to PDF - table and graph - see also page 23.
- SW100 - CD with free PC program**
- LP002 - COM adapter** for communication with personal computer via RS232 serial port
- LP003 - USB adapter** for communication with personal computer via USB port
- LP005 - LAN adapter** for communication with the PC via Ethernet, including ac/dc adapter 230Vac/5Vdc. Exceeding of adjusted limits is alarmed by sending e-mail message or trap.
- Accessories for wireless communication with loggers via GSM - see further
- LP004 - start/stop magnet**
- MD036 - self adhesive Dual Lock** for easy installation
- F9000 - wall holder** secured against unauthorized removal
- A4203 - spare Lithium battery 3.6V**, size AA, no leads



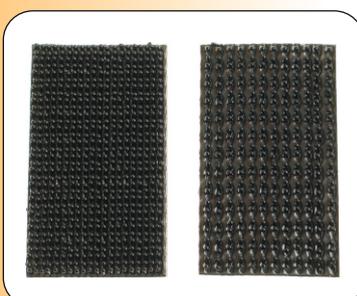
USB adapter for communication with the PC



COM adapter for communication with the PC via COM port



LAN adapter for communication with the PC via LAN network



MD036 - self adhesive Dual Lock



LP004 - start/stop magnet



F9000 - wall holder with lock