



MyAlarm SEAL

DATALOGGER WITH REMOTE MONITORING, DIAGNOSTIC AND PLANT CONTROL FUNCTIONS

Highlights

- **Power Supply 6..15 Vdc**
- **Backup battery up to 60 minutes**
- **Built-in I/Os (4 DI, 2 AI)**
- **Measurements, Alarms, Events, Data logging on Micro SD card (Max 32 GB) • or Flash memory**
- **IoT Support: http post, MQTT, CloudBOX compatibility**
- **Voice Alarm support**
- **Math Functions**
- **Programmable with SEAL environment**
- **Available options: Relay board, GPS receiver**

MYALARM SEAL is a datalogger that can meet the growing demands of data acquisition, analysis in real time and integration with IT systems existing in automation and system/process monitoring. In line with the new productivity and communication models of Industry 4.0 and Internet of Things, it is characterized by a GSM/GPRS modem, 4 Digital Inputs and 2 Analog Inputs, voice alarms/audio controls with DTMF tones and the support of http post, MQTT, CloudBOX compatibility. This unit supports different types of SIM cards and has an 8MB Flash memory, a slot for microSD expandable up to 32GB and multi-tasking real-time operating system. Like all SENECA advanced dataloggers, MYALARM SEAL is fitted also with a built-in UPS that allows an operating autonomy of up to 1 hour in case of lack of primary power supply. This unit guarantees open and flexible programming, thanks to a dedicated environment for the development of control logics (SeAL) and a data import/display programming environment (Log Factory). The combined use of this datalogger with the Cloud-IoT solution proposed by SENECA (Cloud BOX) completes the possibility of data management through responsive webpages with customizable dashboards and widgets. Options available are Nr.2 digital outputs - relay board.



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TECHNICAL DATA

GENERAL DATA

Power Supply	6..15 Vdc
Power Consumption	Micro SD in bundle, slot Micro SD push-push for SD and SDHC card up to 32 GB
Protection degree	IP20
Rechargeable battery	Backup battery LiOn 3,7 V - 1.000 mAh
LED status signalling	Power Supply, GSM network, device status
Operating temperature	-20..+55°C (0..45°C suggested)
Built-in temperature sensor	NTC thermistor
SIM	Slot SIM push-push for mini SIM 15x25 mm
Display	LCD 128x32 dots with 39x8,6 mm visible area
Modem	GSM/GPRS Quad band (850 / 900 / 1800 / 1900 MHz)
MicroUSB port	For setting and battery charging
MMCX connector	For external GPS antenna
SMA connector	For external GSM antenna
Connection	Spring clamp terminals, step 3,5 mm
Dimension	80x105x30 mm
Weight	150 g
Enclosure	ABS Polycarbonate
Mounting	DIN rail or wall mount

MEMORY AND DATALOGGING

CPU	ARM 32 BIT
Flash	1+8 Mbyte
SD	Micro SD in bundle, slot Micro SD push-push for SD and SDHC card up to 32 GB
Datalogger	Measurements, alarms, events, logging on Micro SD card and Flash Memory
Synchronous datalogger	Sample time, min 60 s
Asynchronous datalogger	Up to 8 trigger events with max input frequency 1Hz

PROGRAMMING

Programing environment	SEAL (SENECA Advanced Language)
Variables and trends tool	Log Factory
Nr max function blocks (SEAL)	32
Nr max variables per device	91

FUNCTIONS AND SOFTWARE

Settings	Project, Email, counters, timers, variables, I/O, thresholds, controls and operations on bits
Commands	SMS, free ringtones, DTMF, fast, time-delayed
Alarms	SMS, voice, incrementals, GSM non-communication
Characters codificatons	UTF8/UNICODE support
Remote firmware update	Ftp or webservice
IoT / Cloud support	http post, MQTT, CloudBOX compatibility

DIGITAL INPUTS

Channels	4
Type	Reed, contact, PNP, Pulscap 30 Hz

ANALOG INPUTS

Channels	2
Type	Voltage (0..30 Vdc); current (0..20 mA); accuracy 0,1% f.s.

STANDARD

Approvals	CE
Norms	ETSI EN 301489-7, EN 301511, EN 301 489-1 IEC / EN 60950

OPTIONS

RELAY BOARD - DIGITAL OUTPUTS

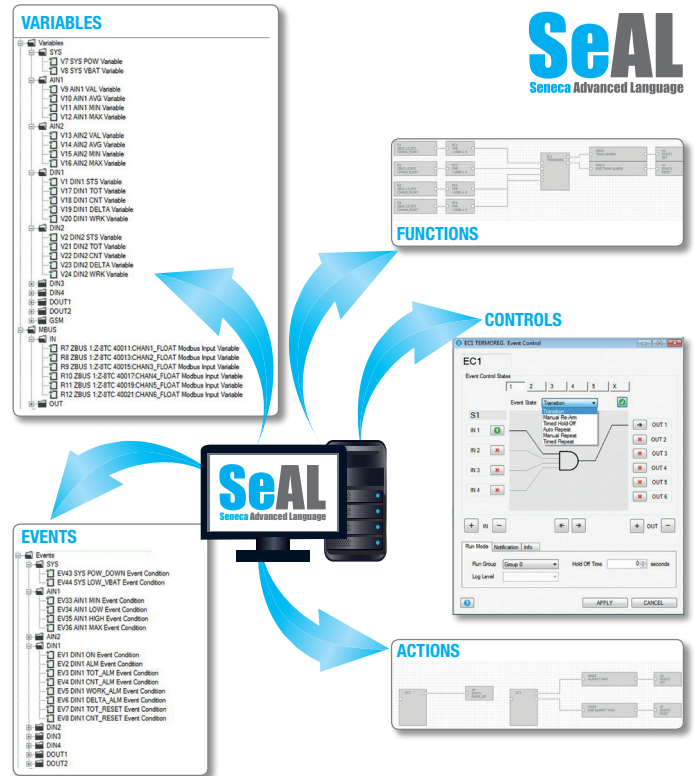
Channels	2
Type	Relay 3 A max - 250V SPST

GPS MODULE

Receiver	22 canali
Sensitivity	-165 dBm
Seek time	32 s (typical)
Accuracy	Up to 2,5

OBJECT EDITOR WITH FUNCTION BLOCKS

SEAL (Seneca Advanced Language) is an object-oriented programming system supported by all Windows platforms, designed for the management of advanced automation and remote communication projects. SEAL can intuitively manage variables, controls, automation functions, alarms, thresholds, reporting, network communication settings with the possibility of remote configuration update.



ORDER CODES

Code	Description
MY-SEAL-0-0-0-B	Remote datalogger SEAL, color blue
MY-SEAL-R-0-0-B	Remote datalogger SEAL with relay board, color blue
MY-SEAL-0-0-G-B	Remote datalogger SEAL with GPS module, color blue
MY-SEAL-R-0-G-B	Remote datalogger SEAL with relay board and GPS module, color blue
MY-SEAL-0-0-0-G	Remote datalogger SEAL, color grey
MY-SEAL-R-0-0-G	Remote datalogger SEAL with relay board, color grey
MY-SEAL-0-0-G-G	Remote datalogger SEAL with GPS module, color grey
MY-SEAL-R-0-G-G	Remote datalogger SEAL with relay board and GPS module, color grey

ACCESSORIES

A-GPS	External GPS antenna - magnetic mount and MMCX connector
A-GSM	Dual band GSM external antenna, cable 3,2 m, SMA
A-GSM-DIR-5M	GSM-DECT-UMTS directive compact antenna
A-GSM-OMNIDIR	GSM-UMTS-WIFI Omnidirectional Antenna
A-GSM-OMNIDIR-10	GSM-UMTS-WIFI Omnidirectional Antenna 10m cable lenght
A-GSM-QUAD-N	GSM/3G/4G/LTE high-performance omnidirectional antenna
ALIM-MY2	Power supply (spare part)
BATT-MY2	MyALARM2 battery, spare part
FD01	Photodetector for pulse counting
MSD	Micro SD memory card with SD adapter
MY2-KITIP66	ABS IP66 Kit for fast field installation

SOFTWARE E APP

SEAL	SENECA Advanced Language
LOG FACTORY	Data Management and visualization software