SICES®
Empowering your control

REWIND & DANCE

Interfacing modules for the communication with SI.MO.NE and SICES SUPERVISOR

- **REWIND**: Electronic device that, using **GSM/GPRS** technology and being connected to a genset, a tower light, a tank, etc., automatically sends data to a central software called SI.MO.NE (Sices Monitor Network).
- In addition, REWIND can be used to set a connection with the monitoring software SICES SUPERVSIOR.

- **DANCE**: Electronic device that, working as **ETHERNET** interface and being connected to a genset, a tower light, a tank, etc., automatically sends data to a central software called SI.MO.NE (Sices Monitor Network).
- In addition, DANCE can be used to set a connection with the monitoring software SICES SUPERVSIOR.

SI.MO.NE
The worldwide energy monitoring and control system

REWIND - General info

REWIND is an electronic device by means of which it's possible to monitor the status, measures and the operations of gensets, towers light, tanks, etc… using a **GPRS/GSM** technology. The hardware (REWIND) is combined to a central software called SI.MO.NE (Sices Monitor Network) which is a web-based software.

REWIND allows to know the location of the machine (*) by means of GPS technology, if it is required.

Among the functions of the device, it's important to know that it is possible to set REWIND in order to send SMS and EMAIL to the user, advising him/her in case of alarm and shut down of the plant.

REWIND is a multi-purposed and opened device which can be connected to the machine in several ways. It's in fact equipped with:

- N.1 USB port
- N.1 Serial port RS232 MODBUS RTU
- N.1 Serial port RS485 MODBUS RTU
- N.8 Insulated digital Input
- N.2 Digital Output with relays
- N.1 Analogue Input fuel level 0÷5V
- N.1 Accelerometer
- N.1 Gyroscope

The voltage feeder can be 12Vdc either 24vdc.

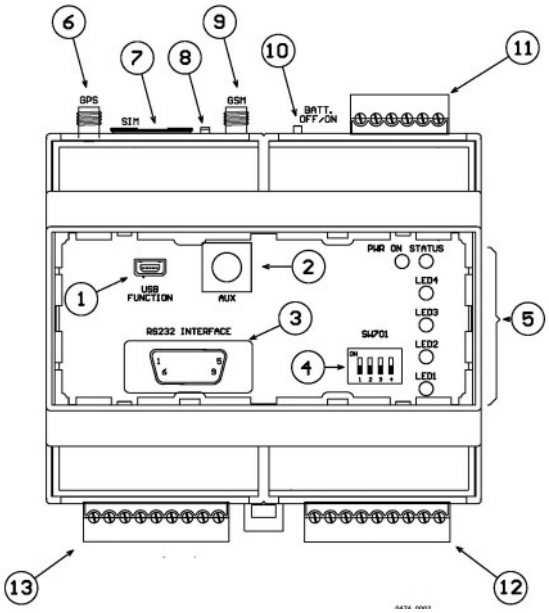
REWIND is also equipped with a rechargeable internal battery able to assure the operation and the safe transfer of data to SI.MO.NE for some hours even without the main voltage supply.

REWIND needs a SIM card M2M (Machine to Machine) for sending data via GPRS to SI.MO.NE, one antenna GPRS/GSM and, if needed, a GPS antenna for the position information. In this last case, just one special antenna able to do all the GPRS/GSM/GPS functions will be connected.

REWIND is equipped with an internal modem, therefore can be used as communication interface towards SICES SUPERVSOR software.

REWIND

1) **USB port**
2) **Aux button**
3) **RS232 port**
4) **Dipswitches (4 SW200)**
5) **Leds**
6) **SMA - GPS Antenna**
7) **SIM Card**
8) **Eject button**
9) **SMA - GSM/GPRS Antenna**
10) **Internal battery switch**
11) **Supply connector**
12) **Digital Inputs**
13) **Digital Outputs**



Technical features

Supply: from 8 to 32Vdc
Dimensions: 106x90x62 mm
Power consumption: 75mA to 24V and 150mA to 12V
Weight: 232gr or 254gr with internal battery
Operating temperature: -30°C +70°C (for the version without battery) or –20° C +60°C (+50°C for the version with internal battery)
Protection degree: IP40

Connectors:
Supply: Terminal board (J1) 2 PIN
Digital output: Terminal board (J1) 4 PIN
Digital Input: Terminal board (J2) 9 PIN
9 pin RS232 Male
Antenna GSM/GPRS: SMA Female
Antenna GPS: SMA Female
SIM: Plug-In 3V and 1,8V

(*) *The word "Machine" refers in a general way to a genset, a power light, an UPS or even a tank.*

REWIND can be interfaced with SICES controllers but even with other brands.

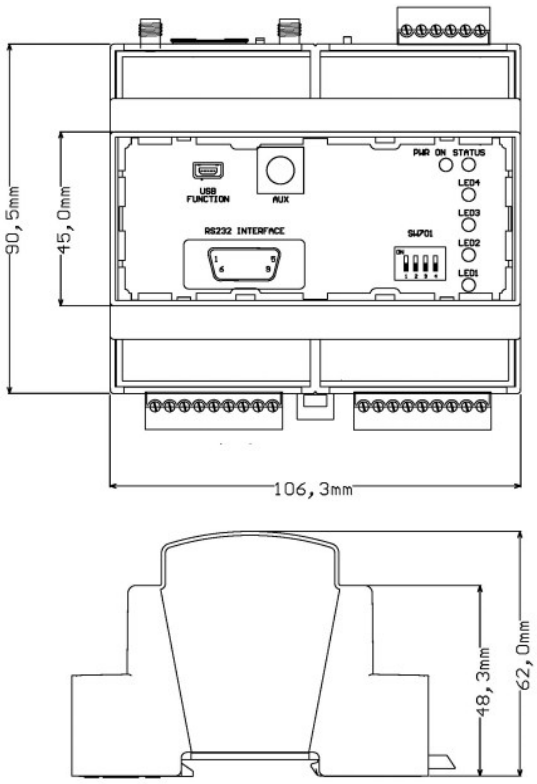
In detail:

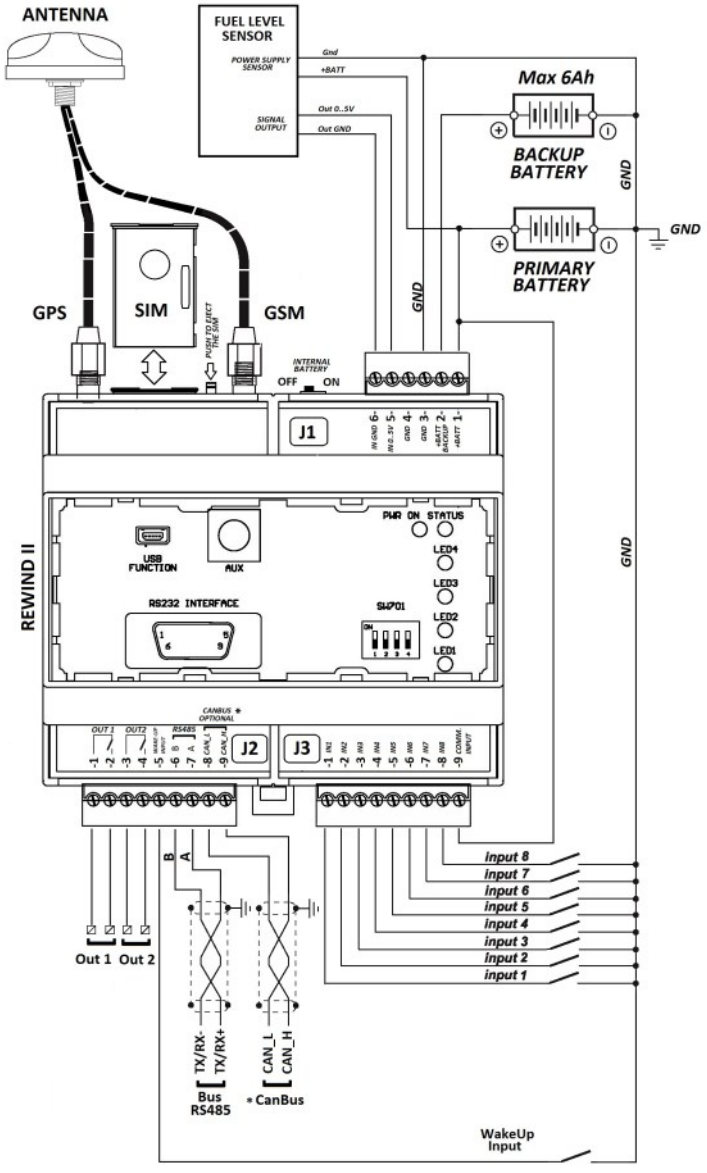
- SICES AC300
- SICES ATS115
- SICES GC3XX
- SICES GC400
- SICES GC5XX
- SICES DST2600
- SICES DST4400
- SICES DST4601/PX
- SICES DST4602/DST4602 *Evolution*
- Caterpillar EMCP3
- Caterpillar EMCP4
- COMAP InteliLite NT AMF25
- COMAP InteliGen NTC BaseBox
- CUMMINS PC 2.X / 3.X
- DEIFF AGC-3
- DSE 5210
- DSE 5510
- DSE 7320
- ELCOS CAM-120
- FRER C70QTL
- IME Multimetro Nemo D4
- PowerNet M200
- Woodward EasyGen 3200

NOTE: if required, it is possible to develop different protocols for different controllers.

REWIND can be easily and quickly programmed by connecting a serial cable to the device (by means of the RS232 port) and using the free tool **BoardPRG** to set the parameters.

Even the installation is rapid thanks to its design, projected to be mounted on DIN RAIL 46277.





DANCE - General info

DANCE is an electronic device aimed for the monitoring of the status, measures and operations of a genset, tower light a tank, ecc… via **ETHERNET TCP/IP**.

DANCE, as per as REWIND, is born to communicate even with SI.MO.NE and its database.

DANCE can be interface with the machine (*) in several ways. In fact, it is equipped with:

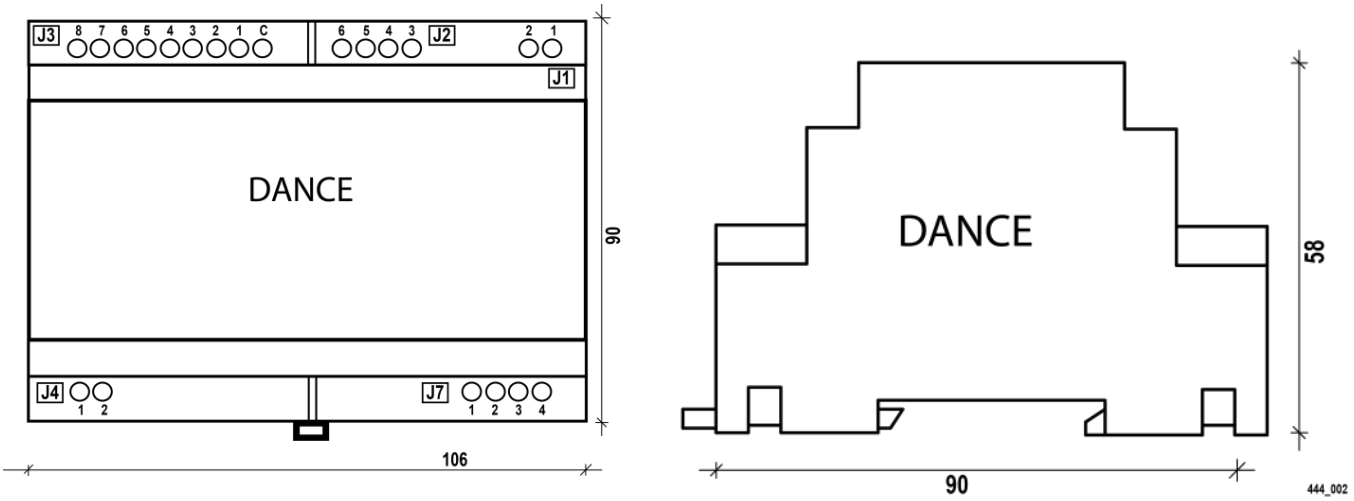
- N.1 Ethernet Port 10/100Mbps (Connector RJ45)
- N.1 Serial port RS232 MODBUS RTU
- N.1 Serial port RS485 MODBUS RTU
- N.1 USB Port
- N.1 Mini USB Port
- N.8 Insulated digital Inputs
- N.2 Digital outputs with relays
- N.2 Analogue Inputs 0-10V

In addition, it is available the measure for the battery voltage.

RTC: Real time clock and rechargeable battery 3V.

The voltage feeder can be 12Vdc or 24vdc.

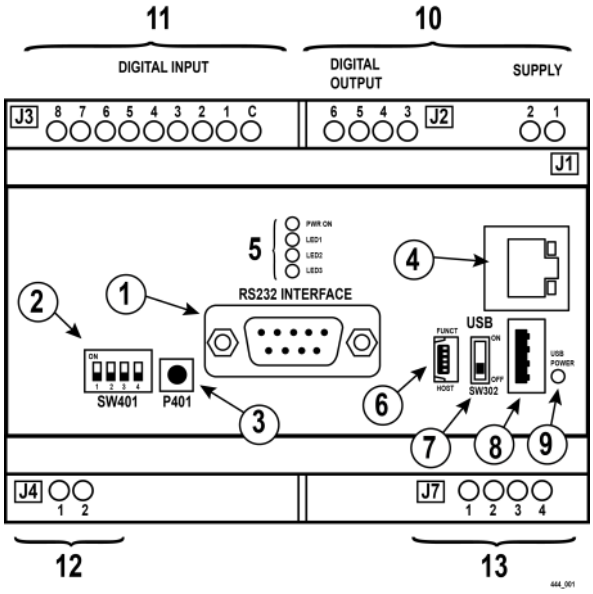
DANCE can be used as server web. In fact, by inserting in any browser the static IP of a device, it's possible to visualize a summary page displaying the main measures and operation status of the genset.



Technical features

Supply: from 8 to 32Vdc
Dimensions: 106x90x58 mm
Operating temperature: -30°C + 70°C (for the version without battery) or –20°C + 50°C (for the version with internal battery)
Power consumption: 100mA 12Vdc - 65mA 24Vdc
Weight: 250g
Protection degree: IP40
Connectors:
J1 supply (2 pin), J2 digital output (4 pin), J3 digital Input (9 pin), J4 serial RS485 (2 pin), J7 analogue Input 0-10V (4 pin), RS232 male (9 pin), RJ45 Ethernet 10/100Mbps, USB A, mini USB B

(*) *The word "Machine" refers in a general way to a genset, a power light, an UPS or even a tank.*



DANCE

1) **Serial port RS232**
2) **Dipswitches**
3) **Bush button**
4) **Ethernet port**
5) **Led signalling**
6) **Mini USB**
7) **Function selector**
8) **Port USB**
9) **Led signalling**
10) **Digital Output + Supply**
11) **Digital Input**
12) **RS485**
13) **2 Analogue Input 0...10V**

For additional details referred to SI.MO.NE and SICES SUPERVISOR software, please consider the related datasheets.

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