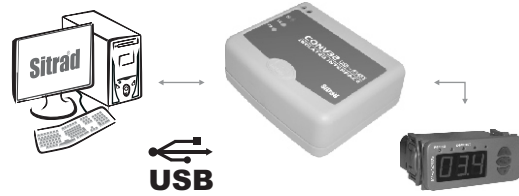




# CONV32

INTERFACE SERIAL  
SERIAL INTERFACE  
INTERFAZ SERIAL  
USB / RS-485

Ver.02



CONV32/02-03T-11736


### 1. DESCRIPTION

Full Gauge's **CONV32 INTERFACE** allows for Full Gauge controllers, equipped with serial communication, to be connected to a PC that has a USB serial communication port. The interface then takes care of the transformation of the voltage levels used by the PC to RS-485 voltage levels used by the controllers.

Full Gauge uses a RS-485 network to make the communication between the controllers and Sitrad® Software more rugged and reliable. The communication is made over two wires (A and B), allowing to perform half-duplex communications, where the PC is master and controllers are slaves.

NOTE: USB device compatible only with USB 2.0 in Windows NT, 2000, 2003, 2008, XP, Vista, 7 and 8.

### 2. TECHNICAL SPECIFICATIONS

- **Power:** Through the USB port
- **Operating temperature:** 0 to 50°C (32 to 122°F)
- **Three indication Leds:** one to signal that the interface is ON (  ) and other two to indicate that serial transmission (TX) and reception (RX) are in progress.
- One USB-B female connector for the connection to the PC, using the special cable supplied with the interface.
- One RS-485 connecting up to 32 instruments, without the need for terminating resistors.

### 3. CONNECTION SCHEMATIC OF CONV32 INTERFACE

- Connect terminals **A** and **B** of the interface to the respective **A** and **B** terminals in distribution boxes and instruments.
- Connect the USB serial cable to the computer;

#### NOTE:

- The length of RS-485 network must not exceed 1000 meters (3280 ft).
- Always use shielded USB cable, not exceeding 1.8 meters (6 ft) in length and certified by USB.org.

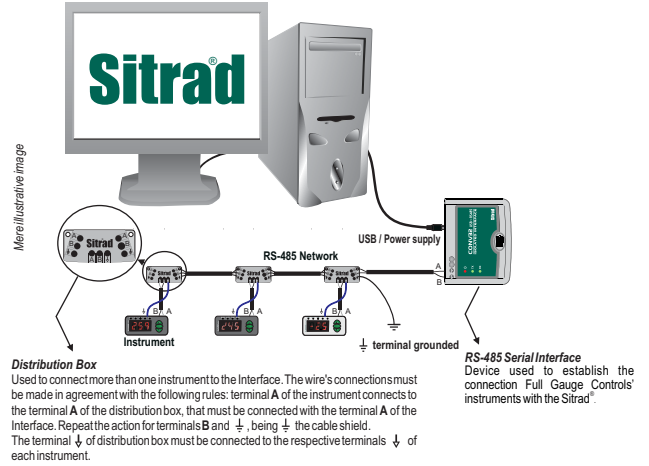
### 4. INSTALLATION

This interface uses HID communication (Human Interface Device), so it doesn't need any installation driver on Windows.

On the Sitrad you need to access the program settings and setup the communication as USB.

For further information on how to configure Sitrad® to access USB port, please refer to the USB driver manual, which can be found in the installation CD supplied with CONV32 through the path "D:\USBdriver\Ajudas\USB\_ING.exe", where "D:" is the letter corresponding to the CD-ROM driver unit in your computer.

### 5. INTEGRATING CONTROLLERS, RS-485 SERIAL INTERFACE AND COMPUTER



### ENVIRONMENTAL INFORMATION

#### Package:

The packages material are 100% recyclable. Just dispose it through specialized recyclers.

#### Products:

The electro components of Full Gauge controllers can be recycled or reused if it is disassembled for specialized companies.

#### Disposal:

Do not burn or throw in domestic garbage the controllers which have reached the end-of-life. Observe the respectively law in your region concerning the environmental responsible manner of dispose its devices. In case of any doubts, contact Full Gauge controls for assistance.



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