



Preliminary edition, April 21, 2021

Connection of Gobius Pro sensors  
to  
Cerbo GX from Victron Energy



This document shows how one to five Gobius Pro sensors can be connected to the Victron Energy system, specifically the Cerbo GX. These connections are performed via the Gobius Pro Hub.

- Two different connection examples are shown:
  1. A galvanically isolated system where the Cerbo GX and the Gobius Pro sensors can be powered from separate supplies.
  2. A non-galvanically isolated system where the Gobius Pro sensors also can send tank full or tank empty alarms to the Cerbo GX.
- The Gobius Pro Hub (and Gobius Pro sensors) can be powered with a DC voltage of 12-24 V (Maximum is 28.0 V DC).



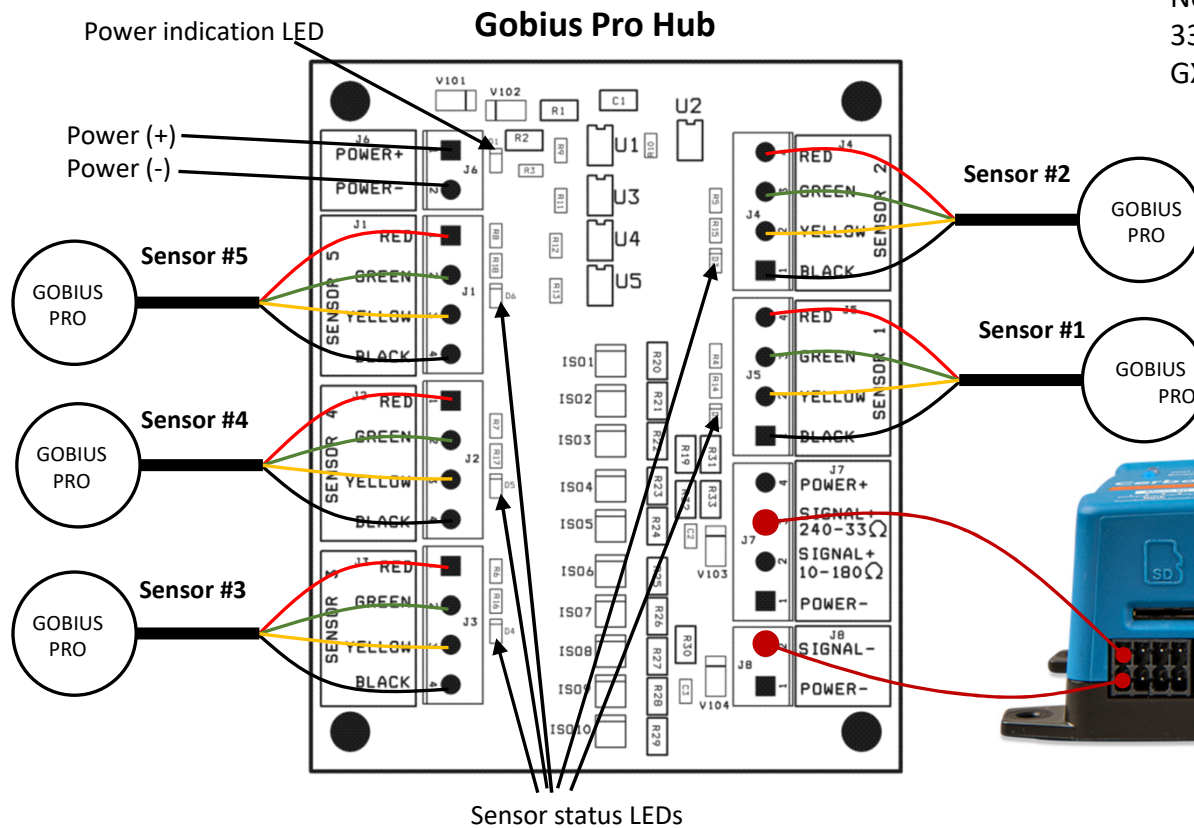
## Connection example for a galvanically isolated system (Page 1 of 2)

### Notes:

1. Sensor #5 is the top most sensor in the tank.
2. The Gobius Pro Hub is connected for 240-33  $\Omega$
3. The Cerbo GX tank input #1 shall be set up for 240-30  $\Omega$ .
4. The Gobius Pro sensors shall be programmed to activate output #1 when the fluid level is above the sensor. An empty tank corresponds to 240  $\Omega$  and a full tank corresponds to 33  $\Omega$ .
5. The sensor status LED on the Hub is lit when Gobius Pro output #1 is activated.



# Connection example for a galvanically isolated system (Page 2 of 2)



Notes: The connections show a 240-33 Ohms sensor connected to Cerbo GX input tank #1.





## Connection example for a non-galvanically isolated system (Page 1 of 2)

### Notes:

1. Sensor #5 is the topmost sensor in the tank.
2. The Gobius Pro Hub is connected for 240-33  $\Omega$ .
3. The Cerbo GX tank input #1 shall be set up for 240-30  $\Omega$ .
4. The Cerbo GX digital input #1 can be set up for tank empty alarm.
5. The Cerbo GX digital input #2 can be set up for tank full alarm.
6. The Gobius Pro sensors shall be programmed to activate output #1 when the fluid level is above the sensor. An empty tank corresponds to 240  $\Omega$  and a full tank corresponds to 33  $\Omega$ .
7. Gobius Pro sensor #5 shall be programmed to activate digital output #2 when the fluid level is above the sensor (tank is full).
8. Gobius Pro sensor #1 shall be programmed to activate digital output #2 when the fluid level is below the sensor (tank is empty).
9. The sensor status LED on the Hub is lit when Gobius Pro output #1 is activated.



# Connection example for a non-galvanically isolated system (Page 2 of 2)

Notes:  
The connections show a 240-33 Ohms sensor connected to Cerbo GX input tank #1 and connections for tank full and tank empty alarms

