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Gobius 4i

Pump control and external display connection

The industrial version of Gobius has functionality to make a pump start and stop at different levels. You may also connect external instruments (gauges) for 4 - 20 mA, e.g. VDO, via the analogue output.

The following settings are possible:

- Pump from empty to full or from full to empty tank
- Interval between measuring; 1, 5, 10 or 20 minutes
- Interval between measuring when pumping; 10 or 30 seconds

All alternatives as well as how to change settings are described in Gobius' installation guide.

Pumping from empty to full tank

The functionality is as follows:

As the level of the liquid sinks below the lowest sensor (¼), Gobius sends a signal to a relay (12 - 24 volts), enabling a pump to start to fill the tank.

Once the level of the liquid passes the uppermost sensor (¾), Gobius will cut off this signal and the pump stops.

Pumping from full to empty tank

The functionality is as follows:

As the level of the liquid passes the uppermost sensor (¾), Gobius sends a signal to a relay (12 - 24 volts), enabling a pump to start to empty the tank.

Once the level of the liquid goes below the lowest sensor (¼), Gobius will cut off this signal and the pump stops.

Feldt & Meiton Marin AB
Hälleflundregatan 24
426 58 Västra Frölunda
Sverige

Telefon +46 31-65 01 70
Fax +46 31-69 41 50
E-post info@fmmarin.se

Bankgiro 5476-7934
Org.nr. 556720-5157
www.fmmarin.se

Electrical specification

Supply Voltage: 9 ~ 29 V DC

Supply Current: 200 mA maximum (Operating)

30 mA maximum (Idle)

Relay Driver Output:

Maximum voltage: 29 V DC

Maximum current: 0.5 A

Analogue Instrument (Gauge) Output: VDO, 4 - 20 mA current loop

Voltage: 29V DC maximum

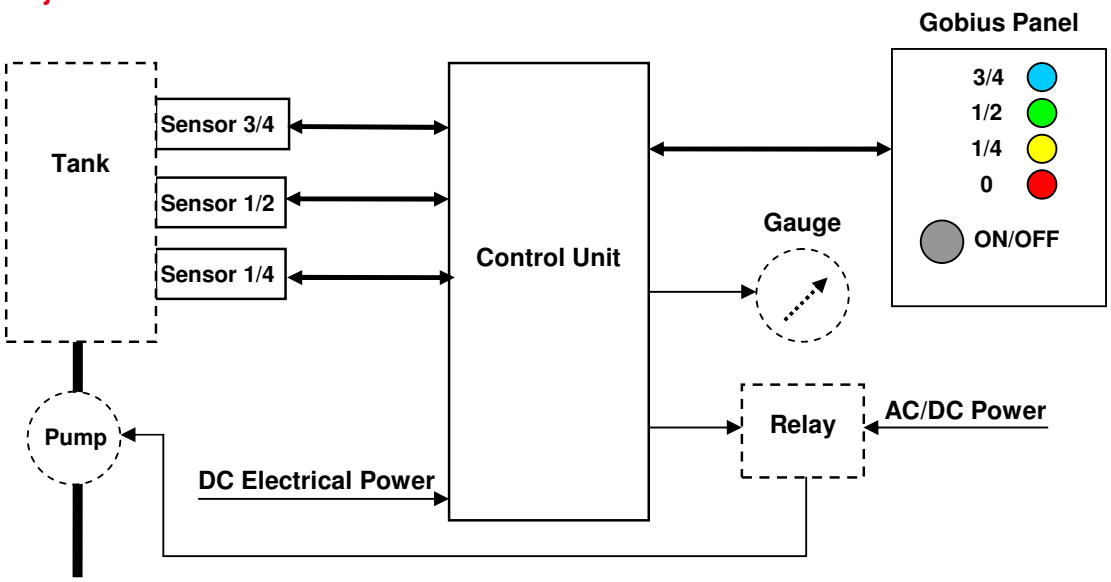
Output current: 18 mA at level ¾

14 mA at level 1/2

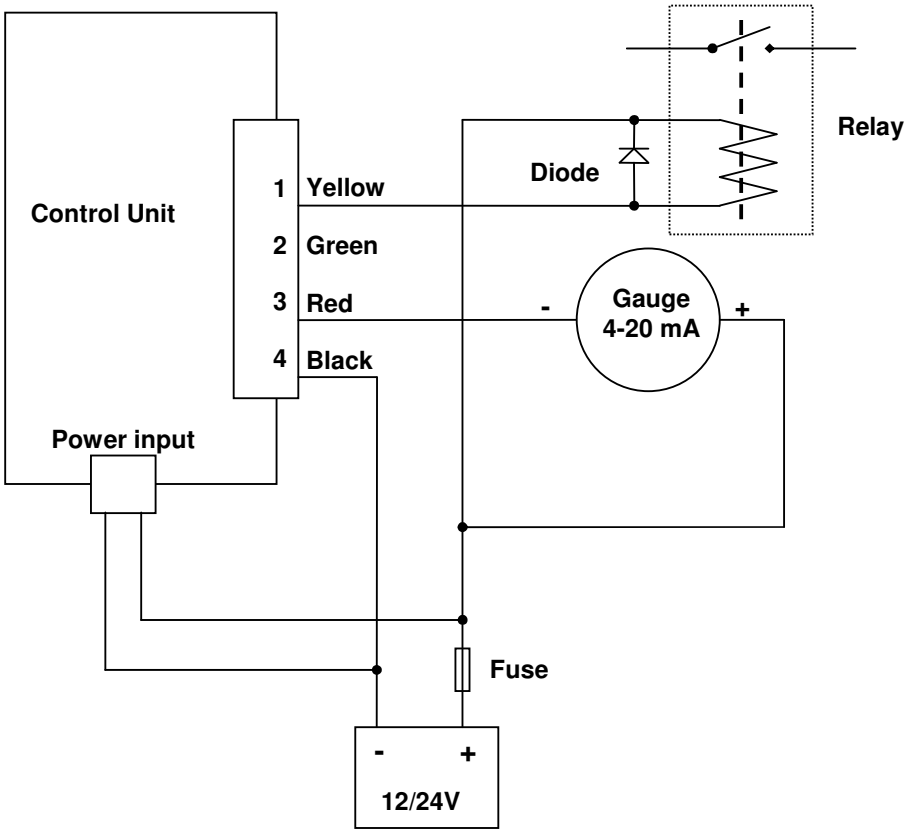
10 mA at level ¼

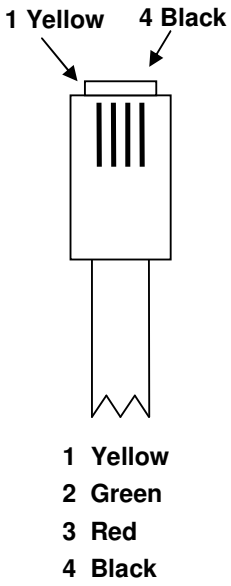
6 mA at level 0

System Overview



External Connections





Diode = 1 A/100 Volts

Fuse = 500 mA

OBAC: Pin 2 (green) should be left open (not connected).