

Gobius C – Output Description (Ref 2.0)

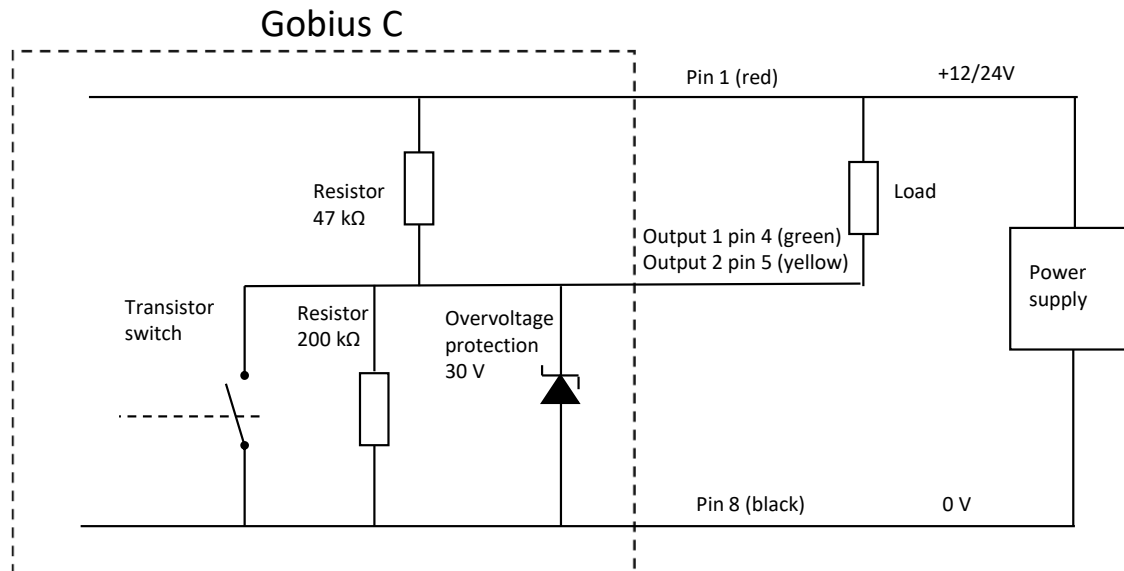
Gobius C has five outputs:

- Two digital outputs that can drive LEDs, lamps or relays
- One analog output that can simulate a resistive sender. It can be connected to an analog indication instrument (gauge) such as Wema
- One output that emits a voltage between 0 and 5 Volts. It can be connected to a voltage-to-digital transducer or a voltmeter
- One galvanically isolated current-loop output (4-20 mA)

Wiring diagram

	Red	Black	White	Grey	Brown	Green	Yellow	Blue
Power (12-24 V) +	X							
Power (12-24 V) –		X						
Output 0-5 V		X	X					
Current loop, 4-20 mA –				X				
Current loop, 4-20 mA +					X			
Alarm 1	X					X		
Alarm 2	X						X	
Resistive out, 10-180 / 240-33 Ohm	X	X						X

DIGITAL OUTPUTS

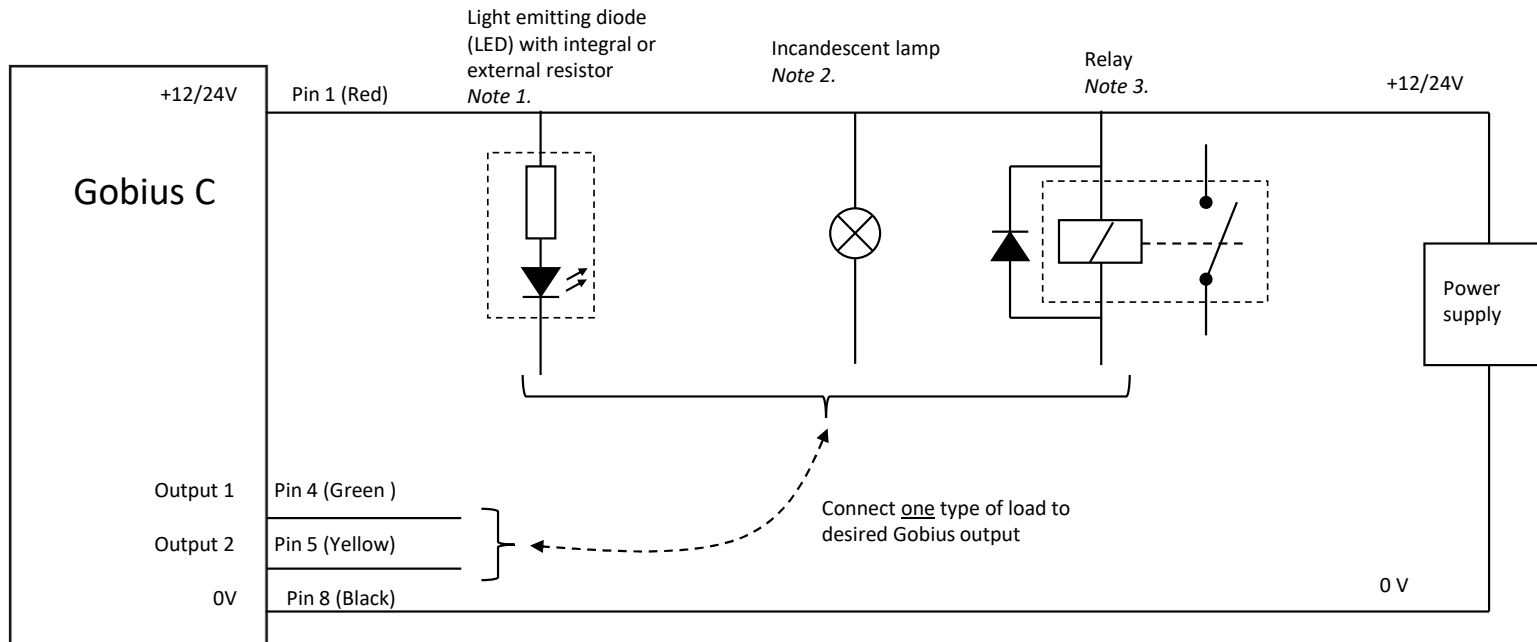


Output electrical specification:

Maximum DC output current: 500 mA

Maximum voltage: 30 V DC

DIGITAL OUTPUTS, EXAMPLE OF CONNECTION OF LED, LAMP OR RELAY

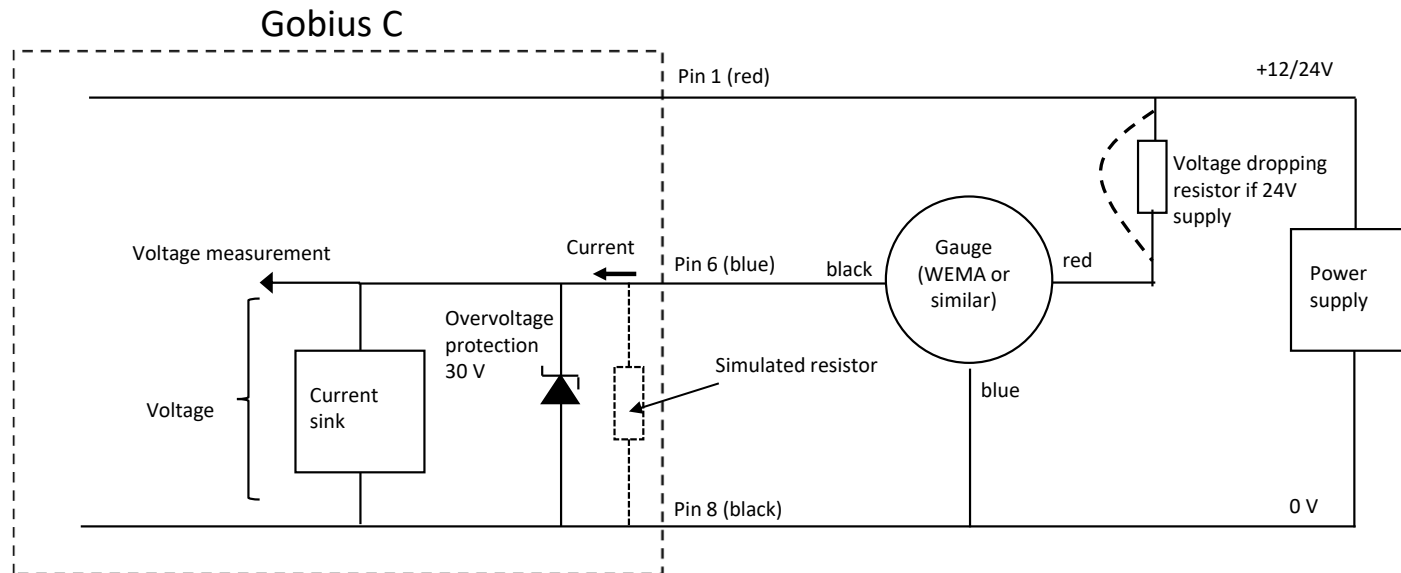


Note 1: The LED should be selected for a nominal current of 20 mA.

Note 2: The lamp should be selected for a nominal current less than 100 mA (1.2W @ 12V, 2.4W @ 24V) because of the high turn-on current.

Note 3: The relay should be selected for a nominal current of less than 250 mA . It is recommended do add a diode as shown for additional protection of the Gobius C.

RESISTIVE OUTPUT, (10-180 Ω , European standard or 240-33 Ω , USA standard)

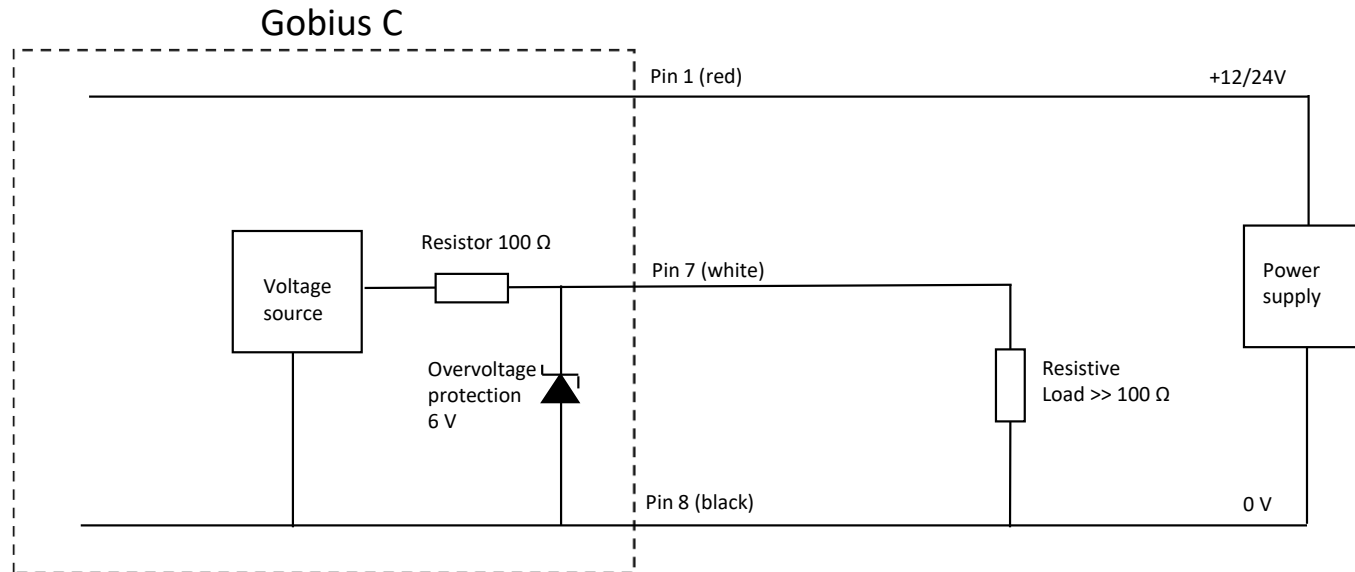


The current sink adjusts the current through the external load to achieve the desired voltage.
The simulated resistance = Voltage/Current.

Notes:

The external load **MUST** be resistive and constant.
The current is calculated once after each level measurement.

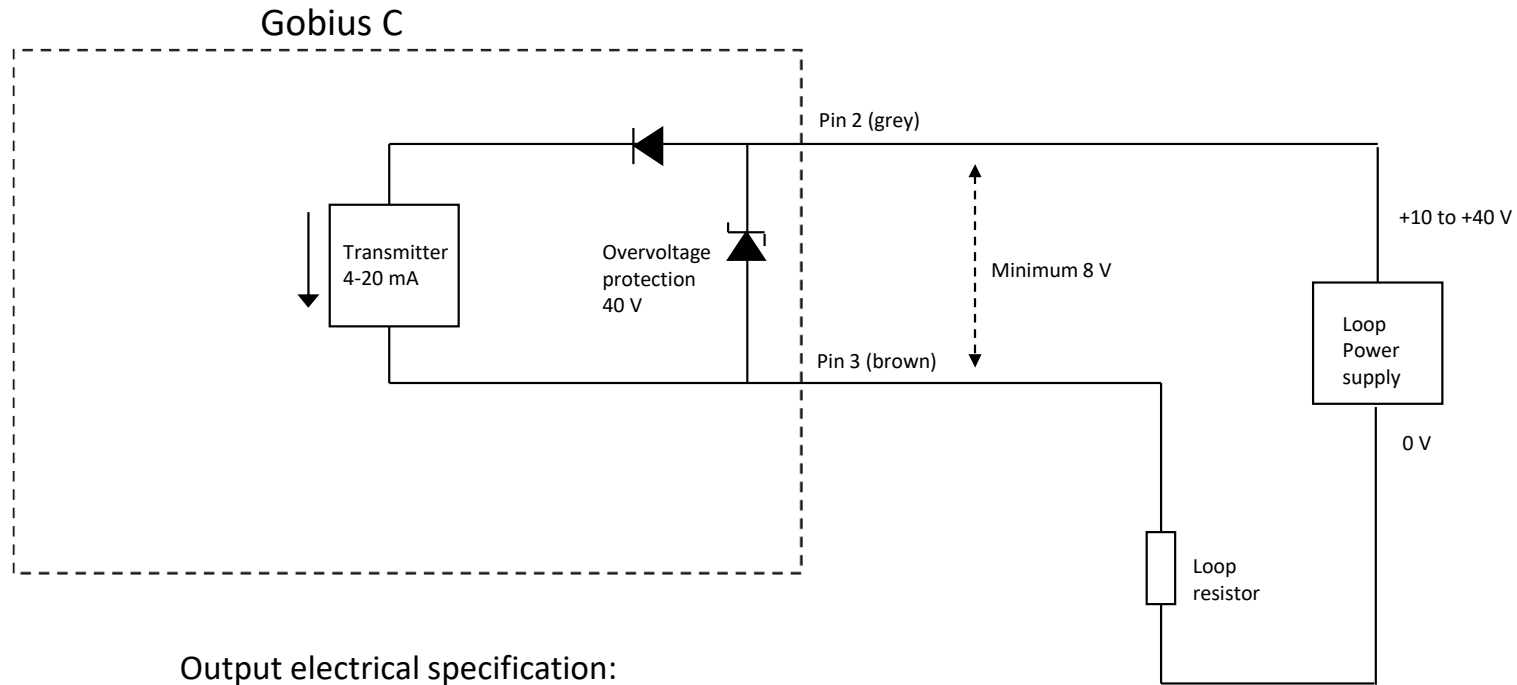
ANALOGUE OUTPUT, VOLTAGE OUTPUT



Output electrical specification:

- Output voltage: 0.1-4.9V (Programmable)
- Output impedance: 100 Ω

ANALOGUE OUTPUT, 4-20 mA CURRENT LOOP



Output electrical specification:

- Minimum loop voltage: 8 V
- Maximum loop voltage: 40 V