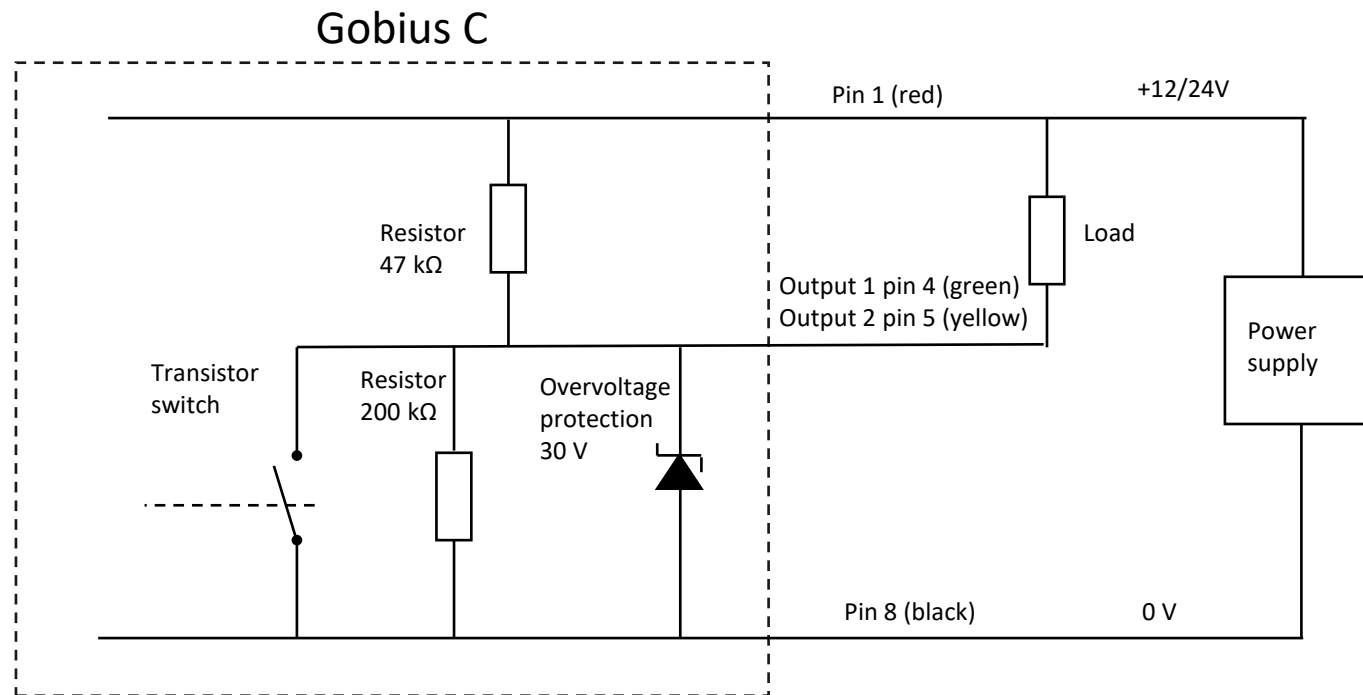


GOBIUS C – OUTPUT DESCRIPTION

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)

DIGITAL OUTPUTS

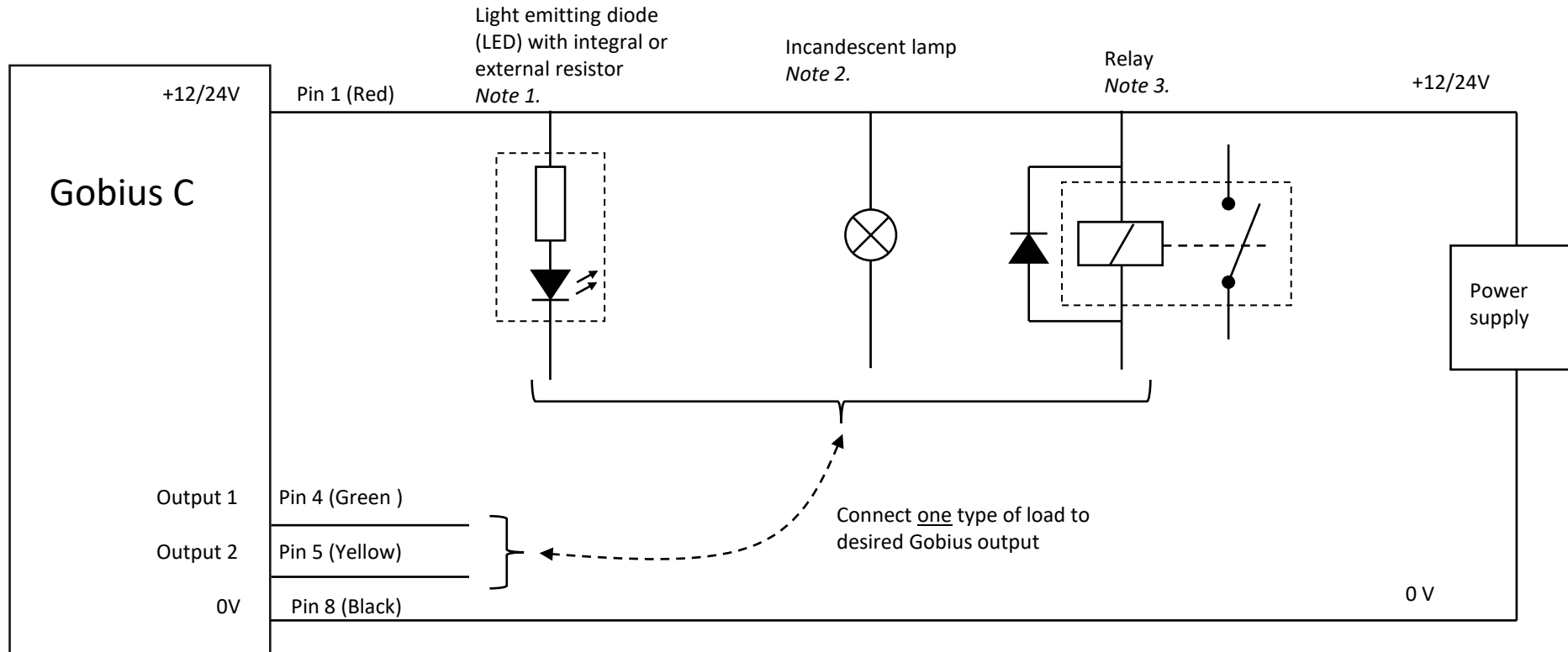


Output electrical specification:

Maximum DC output current: 500 mA

Maximum voltage: 30 V DC

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

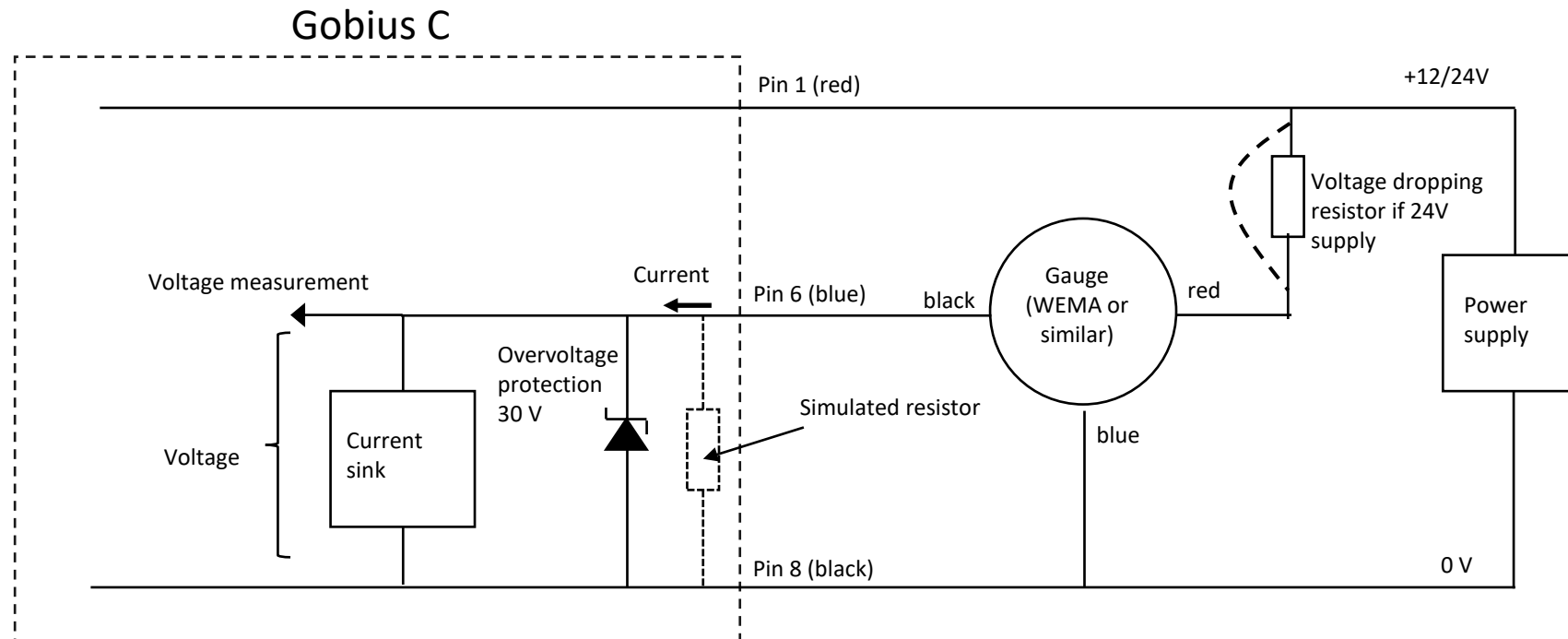


Note 1: The LED should be selected for a nominal current of 20 mA

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.

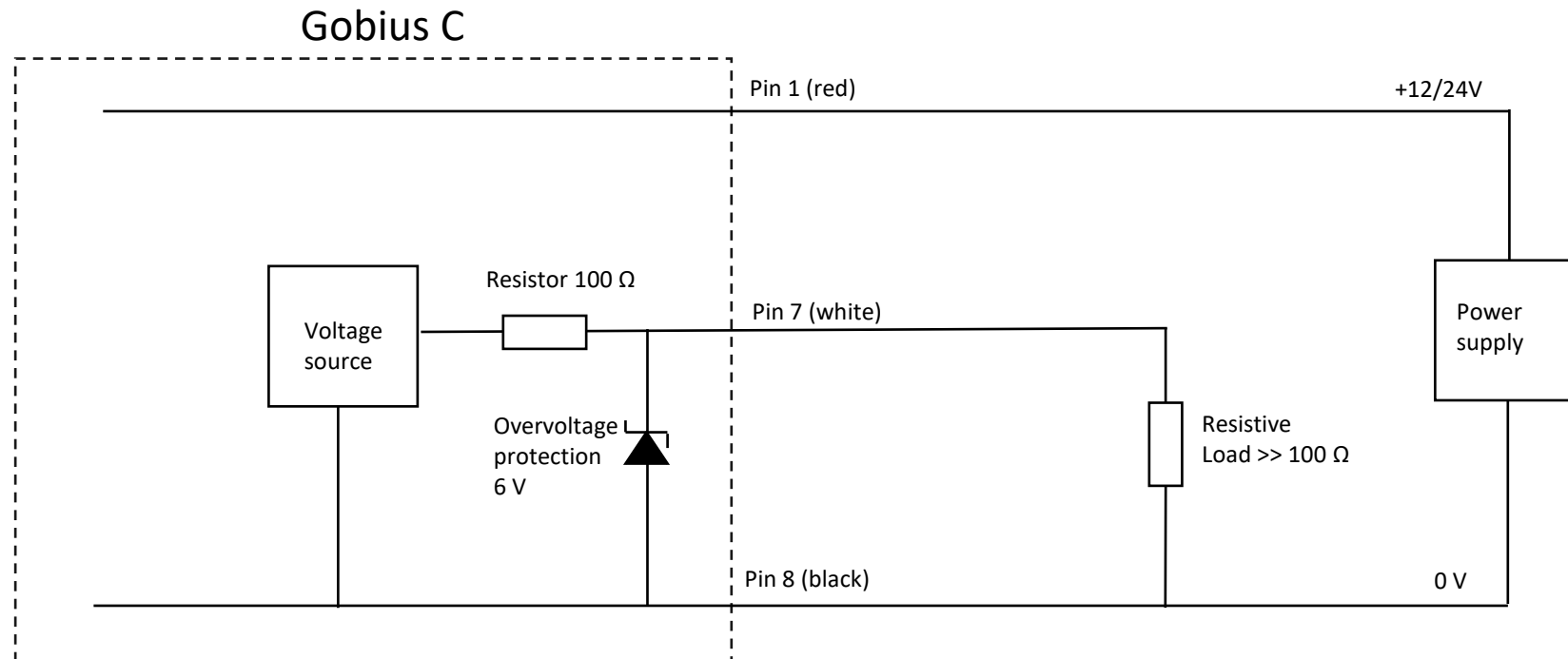
The simulated resistance = $\text{Voltage}/\text{Current}$.

Notes:

The external load **MUST** be resistive and constant.

The current is calculated once after each level measurement.

ANALOGUE OUTPUT, VOLTAGE OUTPUT

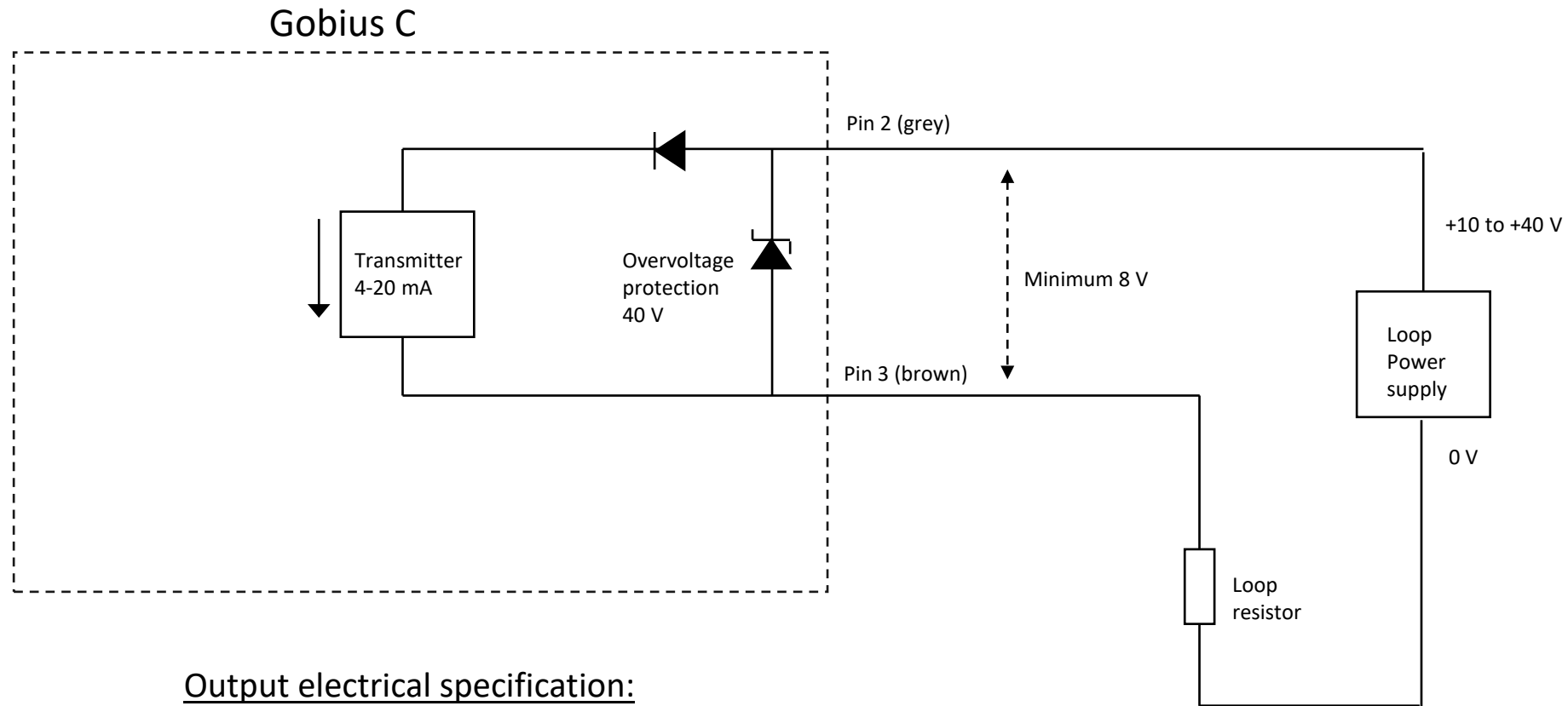


Output electrical specification:

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