Working with 4-20mA transducers

As the DaqPRO internal operation voltage is +5V having a voltage over 6V on the input can cause a malfunction or give wrong readings when sampling other inputs.

To avoid this situation the DaqPRO tests all inputs before starting a logging session and declares "Over Voltage" if a certain input is over 6V.

To work with 4-20mA transducers which have a supply voltage greater than 6V:

- Connect a 200-500 Ohm shunt resistor(200 Ohm resistor is supplied with the DaqPRO) in parallel to DaqPRO's input terminals as a constant load (we recommend using the supplied terminals with built in, high accuracy, 200 Ohm shunt)
- 2. Define the sensor based on Current (Shunt)
- 3. In the Shunt Resistor edit box type in the resistor's value
- 4. Proceed to define the sensor as in the normal procedure

As an example, let's look at a 0-100bar 4-20mA transducer which has a supply voltage of 24V. We can define the sensor as:

4mA ⇔ 0 Bar

20mA ⇔ 100 Bar

So the definition parameters will be:

Define New Sensor	X
Defined sensors list :	Sensor name: Pressure
Dif pres 1 Dif Pers 2 Turbid In	Sensor unit: bar
Turbid Out My I	Based on : Current (Shunt)
Pressure	Shunt Resistor: 200 Ohm
	Calibration values: Output Real Current value
	Value #1: 4 0
Add new sensor	Value #2: 20 100
Restore defaults	OK Cancel