

1. Gas Pressure Sensors, Differential

These sensors measure the differential pressure between two ports. If one is left open, measurement will be relative to atmospheric pressure. Blowing into one port will produce a positive value, whereas blowing into the other port will produce a negative value.

Applications include:

- Experiments involving a manometer
- Breathing rate (with breathing rate belt LOG3462)
- Production of gases in an enclosed atmosphere during photosynthesis of an aquatic plant
- Osmosis investigations
- Rate of transpiration investigations

Code	Description	Measuring Range	Pack	Price
LOG3099	Gas pressure sensor differential 200kPa	$\pm 200\text{kPa}$ / $\pm 30\text{psi}$	Each	£90.00
LOG3096	Gas pressure sensor differential 10kPa	$\pm 10\text{kPa}$ / $\pm 1.5\text{psi}$	Each	£90.00



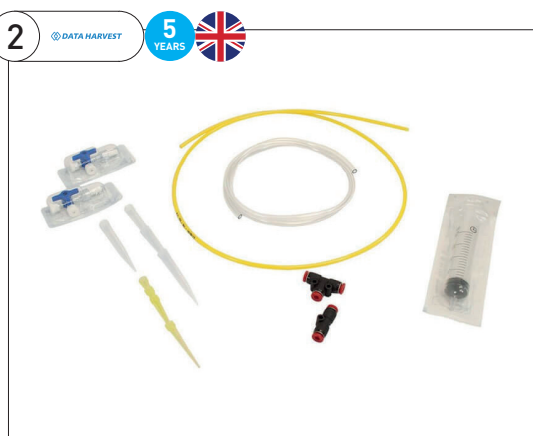
2. Gas Pressure Accessory Pack

A selection of tubing elements and valves which will allow the user to make gas tight connections to a SmartQ gas pressure sensor.

This pack contains:

- 1 x 1m PVC tube – 3 mm bore x 1mm wall thickness
- 1 x 1m of nylon pneumatic tube – 4mm O.D x 2.5mm I.D
- 4 x large pipette tip
- 4 x small pipette tip
- 1 x straight push fit connector
- 1 x tee piece push fit connector
- 2 x 3-way stop cocks
- 1 x 20mL syringe

Code	Pack	Price
LOG3444	Each	£27.00



3. Heart Rate & Pulse Waveform Sensor

Pupils of all ages are keenly interested in how physical and mental stress affects their heart rate. The sensing clip (pleth) can be attached to a finger or earlobe to measure either blood flow (pulse waveform) or heart rate (beats per minute).

It works best if the test subject keeps their finger with the sensing clip absolutely still.

Ranges:

- 0 - 200 beats per minute
- $\pm 2000\text{mV}$ waveform

Applications include:

- Heart rate changes due to activity
- Recovery rate
- Pulse rate
- Effects of food (chocolate) or mild stimulants (caffeine)
- Effect of music on pulse rate
- The effect of the strictest teacher entering the room!

Code	Pack	Price
LOG3105	Each	£93.00

