ALBA Software Notes for the Muscle Fatigue Sensor (Requires ALBA Software V1.90 or Greater)

Getting Started

- The notes on this sheet should be read in conjunction with the notes from Vernier on their Hand Dynamometer sensor.
- Connect the lead from the sensor to channel 3 on the ALBA Interface.
- Ensure that the ALBA interface is connected to your PC and that the unit is powered. Launch the ALBA software.
- Select Setup and Go from the Investigator menu.
- Click the General Tab and make the following selections as shown below: Live, Both, Continuous, 20ms, Smooth data set to 4. When you click the Channels Tab you will see that the software recognizes that the Spirometer is connected to channel 3.

| 🕸 ALBA Interface and Logger Setup | | | | | |
|--|--|--|--|--|--|
| General Channels Calibration Trigger Output X Output Y Load/Save | | | | | |
| Interface Connection | | | | | |
| ⊙ Live (Connected to PC) ○ Remote | | | | | |
| Shown During Logging | | | | | |
| ◯ Table ◯ Graph ④ Both ◯ Meters (use Table) □ | | | | | |
| - Run Parameters | | | | | |
| Number of Readings (max 65000): 100 🔽 Continuous 🔽 Smooth data | | | | | |
| Logging Interval: 20 ms 💌 | | | | | |
| 'min 4 max | | | | | |
| OK Cancel Help | | | | | |

| dj <mark>b ALBA Int</mark> e | erface a | ind Logge | er Setup | | ? 🔀 | | | |
|---|----------|-------------|------------------|----------------|------------|--|--|--|
| General Ch | iannels | Calibration | Trigger Output X | Output Y Load/ | Save | | | |
| Analogue Input: Channel 1 | | | | | | | | |
| 🔘 0 to +51 | v O | -5 to +5 V | 🔵 0 to +10 V | 🔘 -10 to +10 V | 💿 not used | | | |
| Analogue Input: Channel 2 | | | | | | | | |
| 🔿 0 to +5 ' | v O | -5 to +5 V | 🔘 0 to +10 V | 🔿 -10 to +10 V | 💿 not used | | | |
| Self-identifying Sensors | | | | | | | | |
| Connect any self-identifying sensors which you want to use to analogue inputs 3 or 4. The sensors found are shown below: | | | | | | | | |
| Analogue Input 3: Muscle Fatigue Sensor | | | | | | | | |
| Analogue Ir | nput 4: | Sensor No | Found | | | | | |
| | | | | | | | | |
| OK Cancel Help | | | | | | | | |

- After you have made your selections click OK.
- The software now directs you to set up the column heading for the Table as shown below.

| Setup Table Headings | | | | | | | | |
|---|--------------|-------|--------|--------|--|--|--|--|
| Enter the details for the table columns where the data will be stored. These details will also appear on any graphs created. | | | | | | | | |
| (You can change these later, by highlighting a column and selecting "Table Properties".) | | | | | | | | |
| | Name | Units | Symbol | Colour | | | | |
| Channel 1 | | | | × | | | | |
| Channel 2 | | | | × | | | | |
| Channel 3 | Fatigue Sens | Ν | F | - | | | | |
| Channel 4 | | | | × | | | | |
| | ОК | Ca | ncel | | | | | |

- Click the Stop icon to end the data capture. The usual graphical and tabular software tools (e.g. zoom, gradient etc) are now available to you.
- The Vernier data sheet suggests lots of experiments to try.

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