

Vernier Sensor Interference Tables - Go Direct

The following tables were constructed by testing pairs of sensors in a 1L beaker containing 600 mL of water. The water was at 22°C and had a conductivity of approximately 6,000 $\mu\text{S}/\text{cm}$.

Good = no interference

Bad = interference on one or both sensors

OK = minimal interference, use with caution

TBD = to be determined

Table A: Go Direct sensors (via Bluetooth) –

*tested on LabQuest 2, LabQuest 3, computer, and tablet (on battery and plugged into AC power)

| | CON | ODO | pH | ISE | ORP | SAL |
|-----|------|------|------|------|------|-----|
| CON | Good | Good | Good | Good | Good | TBD |
| ODO | Good | Good | Good | Good | Good | TBD |
| pH | Good | Good | Good | Good | Good | TBD |
| ISE | Good | Good | Good | Good | Good | TBD |
| ORP | Good | Good | Good | Good | Good | TBD |
| SAL | TBD | TBD | TBD | TBD | TBD | TBD |

Table B: Go Direct sensors (via USB) –

*tested on LabQuest 2, LabQuest 3, and computer (on battery and plugged into AC power)

| | CON | ODO | pH | ISE | ORP | SAL |
|-----|------|------|------|------|------|-----|
| CON | Bad | Good | Bad | Bad | Bad | TBD |
| ODO | Good | OK | Good | Good | Good | TBD |
| pH | Bad | Good | Good | Good | Good | TBD |
| ISE | Bad | Good | Good | Good | Good | TBD |
| ORP | Bad | Good | Good | Good | Good | TBD |
| SAL | TBD | TBD | TBD | TBD | TBD | TBD |

Table C: Go Direct sensors (one on USB, one on BLE) –

*tested on LabQuest 2, LabQuest 3, and computer (on battery and plugged into AC power)

| | CON | ODO | pH | ISE | ORP | SAL |
|-----|------|------|------|------|------|-----|
| CON | Good | Good | OK | OK | OK | TBD |
| ODO | Good | OK | Good | Good | Good | TBD |
| pH | OK | Good | Good | Good | Good | TBD |
| ISE | OK | Good | Good | Good | Good | TBD |
| ORP | OK | Good | Good | Good | Good | TBD |
| SAL | TBD | TBD | TBD | TBD | TBD | TBD |