



Product Guide

pH, conductivity, moisture and temperature meters, monitors, controllers, wireless data and automated dosing systems. Our equipment is designed to enable the world's growers to create the optimum environment to grow the best plants and food.



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We've been trusted by growers like you for over 30 years.

For generations, Bluelab® has been the tool that has helped growers continue the legacy of exceptional crop and yield.

We equip growers to pursue the art of growing.

Our products and technology inform complex growing decisions to help cultivate plants and crops in controlled environments. Our range of products measure, monitor and control nutrient solutions and root zones, for home-based growers to commercial cultivators.

From New Zealand to the world.

We are a global company - sharing our inspiration and innovations from our home in the horticultural capital of New Zealand - to you.



"When I started,
I didn't think conductivity was
so important, now I've raised my
EC and my plants just rocket away
so I know they've got the nutrient
levels required.

I use both Bluelab® pens* to spot
check my system to see if I've got any
variation which could lead to trouble
spots, especially at the media beds.
They're fast to use and accurate."

LEON JURGENS
Tauranga, New Zealand

* Bluelab® pH and Conductivity Pens



Nutrient Solution

Measure and monitor water-
based solutions such as
nutrients solutions, supply water,
runoffs and soil samples.

pH, conductivity and
temperature – tough,
durable and simple

Includes the Leap
pH Probe for
direct root zone
and solution pH
measurement

Features

- Detachable Bluelab® Leap pH probe with toughened spear-tip for fast and accurate pH measurements directly in the root zone and in nutrient solution
- Shows conductivity scales CF, EC, PPM 500 & PPM 700 at the touch of a button
- Lightweight and portable
- Large, easy-to-read back-lit LCD display
- No calibration required for conductivity or temperature (factory calibrated)
- Simple two-point pH calibration process with 30-day calibration indicator
- Over range and under range indicators
- Low battery indicator
- 2x AAA alkaline batteries included
- Auto-off function



CODE: METCOMPLUS



Nutrient pH Temperature

6 months
for Leap pH Probe

The iconic Combo Meter with a toughened Leap pH Probe so you can measure more, faster.

All-in-one, portable solution for accurate measurement of pH, conductivity and temperature in nutrient solution. The Bluelab® Leap pH probe also allows for fast and accurate pH measurements directly in the root zone in a wide range of growing substrates including soil, Rockwool, coco coir and potting mixes - no more slurries or extractions.

The battery-powered, lightweight unit can be used anywhere, anytime to measure critical parameters related to nutrient uptake in plants.

2 metre / 6.6 foot standard cable

Specifications

	pH	Conductivity	Temperature
		0.0 - 9.9 EC 0 - 99 CF	
Measurement range:	0.0 - 14.0 pH	0 - 4950 ppm (500 ppm/TDS) 0 - 6930 ppm (700 ppm)	0 - 50 °C 32 - 122 °F
Resolution:	0.1 pH	0.1 EC, 1 CF 10 ppm (500 ppm) 10 ppm (700 ppm)	1 °C 1 °F
Accuracy at 25 °C or 77 °F, or 2.77 EC:	±0.1 pH	±0.1 EC, ±1 CF ±50 ppm ±70 ppm	± 1 °C ± 2 °F

The best match: pH Probe KCl Storage Solution 100/250ml, pH 7.0 & 4.0 Calibration Solutions, 2.77EC Conductivity Standard Solution, pH & Conductivity Probe Care Kit

pH, conductivity and temperature
in one portable meter - simple

Features

- Replaceable double-junction pH probe included
- Shows conductivity scales CF, EC, PPM 500 & PPM 700 at the touch of a button
- Lightweight and portable
- Large, easy-to-read back-lit LCD display
- No calibration required for conductivity or temperature (factory calibrated)
- Simple two-point pH calibration process with 30-day calibration indicator
- Over range and under range indicators
- Low battery indicator
- 2x AAA alkaline batteries included
- Auto-off function



CODE: METCOM



Nutrient pH Temperature

6 months
for pH probe

A convenient and portable way to get conductivity, pH and temperature measurements in solution in a compact all-in-one meter.

Easy-to-read screen and push-button operation, choose your preferred parameter to display.

Portable with no external power supply required, this meter can be used anytime and anywhere to help manage your plants' daily nutrient requirements.

Team with Bluelab® solutions and the convenient Bluelab® Carry Case.

2 metre / 6.6 foot standard cable

Specifications

	pH	Conductivity	Temperature
		0.0 - 9.9 EC 0 - 99 CF	
Measurement range:	0.0 - 14.0 pH	0 - 4950 ppm (500 ppm/TDS) 0 - 6930 ppm (700 ppm)	0 - 50 °C 32 - 122 °F
Resolution:	0.1 pH	0.1 EC, 1 CF 10 ppm (500 ppm) 10 ppm (700 ppm)	1 °C 1 °F
Accuracy at 25 °C or 77 °F, or 2.77 EC:	±0.1 pH	±0.1 EC, ±1 CF ±50 ppm ±70 ppm	± 1 °C ± 2 °F

The best match: pH Probe KCl Storage Solution 100/250ml, pH 7.0 & 4.0 Calibration Solutions, 2.77EC Conductivity Standard Solution, pH & Conductivity Probe Care Kit



Features

- Measures pH and temperature
- Fully waterproof
- Backlit LCD display
- Double junction probe (not replaceable)
- Simple two-point calibration process with 30-day calibration indicator
- Hold reading function
- Low battery indicator
- Auto-off function
- Automatic temperature compensation for pH
- 1x AAA replaceable battery included

Specifications

	pH	Temperature
Measurement range:	0.0 - 14.0 pH	0 - 50 °C 32 - 122 °F
Resolution:	0.1 pH	1 °C 1 °F
Accuracy at 25 °C or 77 °F:	±0.1 pH	± 1 °C ± 2 °F

The best match: pH Probe KCl Storage Solution 100/250ml, pH 7.0 & 4.0 Calibration Solutions, Bluelab® pH probe care kit

Perfect for quick and easy pH and temperature readings direct from your solution.

The Bluelab® pH Pen is the preferred option for hand-held pH meters. It provides a compact, quick and handy way to manage the success of your crops and helps ensure maximum uptake of nutrients.

A key parameter that affects nutrient uptake in plants is whether your solution is acid or alkaline. We measure this in pH.

Teamed with our Bluelab® Conductivity Pen you have a robust, convenient and accurate measurement system.



Features

- Measures conductivity and temperature
- Selectable units for conductivity and temperature
- Shows conductivity scales CF, EC, PPM 500 & PPM 700 at the touch of a button
- Fully waterproof
- Backlit LCD display
- Calibration optional
- Successful 30-day calibration indicator
- Hold reading function
- Low battery indicator
- Auto-off function
- Automatic temperature compensation
- 1x AAA replaceable battery included

Specifications

	Conductivity	Temperature
Measurement range:	0.0 - 10.0 EC 0 - 100 CF 0 - 5000 ppm (500 ppm / TDS) 0 - 7000 ppm (700 ppm)	0 - 50 °C 32 - 122 °F
Resolution:	0.1 EC, 1 CF 10 ppm (500 ppm) 10 ppm (700 ppm)	1 °C 1 °F
Accuracy at 25 °C or 77 °F:	±0.1 EC, ±1 CF ±50 ppm (500 ppm) ±70 ppm (700 ppm)	± 1 °C ± 2 °F

The best match: 2.77EC Conductivity Standard Solution, Bluelab® Conductivity probe care kit

The go-to for hand-held conductivity meters.

The Bluelab® Conductivity Pen simply tells you the amount of nutrients in your solution. Conductivity is automatically compensated with the integrated temperature sensor.

Providing a compact, quick and accurate way to measure two key parameters for crop health.

Teamed with our Bluelab® pH Pen you have a robust, convenient and accurate measurement system.

A handy pack with everything you need to get going and keep growing



CODE: PENGTB



Toolbox Contents

- Bluelab® pH Pen
- Bluelab® Conductivity Pen

WITH BONUS:

- Bluelab® Grow Book
- Bluelab® pH & Conductivity Probe Care Kit
- Grower's Wall Chart



BONUS TOOLS INSIDE!

The essential tools you need to easily measure your crop's nutrient solution.

These clever pens make it easy to maximize the nutrient uptake (pH), the amount of food available (EC/ppm) and the solution temperature (°C / °F), so you can create the best nutrient environment for your plants' growth.

With these tools and essentials in one value-added pack, the Grower's Toolbox is a complete simple crop nutrient management system that helps you get it right, from the start.

The best match: pH Probe KCl Storage Solution 100/250ml, pH 7.0 & 4.0 Calibration Solutions, 2.77EC Conductivity Standard Solution, Bluelab® pH & Conductivity probe care kit

Pen Specifications

	pH	Conductivity	Temperature
Measurement range:	0.0 - 14.0 pH	0.0 - 10.0 EC 0 - 100 CF 0 - 5000 ppm (500 ppm/TDS) 0 - 7000 ppm (700 ppm)	0 - 50 °C 32 - 122 °F
Resolution:	0.1 pH	0.1 EC, 1 CF 10 ppm (500 ppm / TDS) 10 ppm (700 ppm)	1 °C 1 °F
Accuracy at 25 °C or 77 °F:	±0.1 pH	±0.1 EC, ±1 CF ±50 ppm (500 ppm / TDS) ±70 ppm (700 ppm)	± 1 °C ± 2 °F

The globally respected conductivity meter, simply brilliant, durable, reliable



Commercial

0.2 - 3.6 EC

CODE: TRUNV2

0.4 - 6.0 EC

CODE: TRUNCOMV2

Features

Bluelab® Truncheon® Nutrient Meter & Bluelab® Commercial Truncheon® Nutrient Meter

- Fully waterproof
- Provided with EC, CF, ppm 700 and ppm 500
- Auto on/off function
- No calibration required (factory calibrated)
- No buttons or switches
- Battery operated (3x AA batteries included), so your Truncheon's ready out of the box
- Measure while mixing nutrients in your reservoir

Displaying all the conductivity scales EC, CF, PPM 500 & PPM 700 on a single line.

Each time you feed your plants it is essential to know the nutrient levels of your solution. This is simply done with the Bluelab® Truncheon® Nutrient Meter.

Flashing lights indicate your conductivity reading, which is automatically compensated with the integrated temperature sensor. Removable shroud for easy cleaning.

The Bluelab® Commercial Truncheon® Nutrient Meter gives a higher conductivity range while displaying all the conductivity levels, CF, EC, PPM 500 & PPM 700 on a single line. Super tough, fully waterproof, factory calibrated and no on/off buttons to worry about. It is great for stirring your reservoir too!

Meter length: 40 cm / 16 in.

Specifications

	Bluelab® Truncheon® Nutrient Meter	Bluelab® Commercial Truncheon® Nutrient Meter
Measurement range:	0.2 - 3.6 EC, 2 - 36 CF 100 - 1800 ppm (500 ppm / TDS) 140 - 2520 ppm (EC x 700)	0.4 - 6.0 EC, 4 - 60 CF 200 - 3000 ppm (500 ppm / TDS) 280 - 4200 ppm (EC x 700)
Resolution:	0.1 EC, 1 CF, 50 ppm (EC x 500), 70 ppm (EC x 700)	
Accuracy at 25 °C or 77 °F:	± 0.1 EC, ± 1 CF, ± 50 ppm (500 ppm), ± 70 ppm (700 ppm)	

The best match: 2.77EC Conductivity Standard Solution, Bluelab® Conductivity probe care kit

Continuous monitoring of critical parameters for successful growth: pH, conductivity & temperature - 24/7



CODE: MONGUA

CODE: MONGUACON

CODE: MONGUACONIN

See your desired levels of pH, conductivity and temperature.

Monitor your crops 24 hours a day, with the ability to set high and low alarms for each parameter. A flashing display and mobile alerts (Connect versions only) let you know if your parameters move away from the optimum, allowing you to make the important adjustments quickly and effectively.

The large, clear displays allow readings to be viewed from a distance.

Probe cable length: 2 metres / 6.6 feet - MONGUA & MONGUACON

3 metres / 10 feet - MONGUACONIN

The best match: pH 7.0 & 4.0 Calibration Solutions, 2.77EC Conductivity Standard Solution, Bluelab® pH & Conductivity probe care kit



Specifications

	pH	Conductivity	Temperature
Measurement range:	0.0 - 14.0 pH	0.0 - 5.0 EC 0 - 50 CF 0 - 2500 TDS (500 ppm / TDS) 0 - 3500 ppm (EC x 700)	0 - 50 °C 32 - 122 °F
Resolution:	0.1 pH	0.1 EC, 1 CF 10 TDS 10 ppm	1 °C 1 °F
Accuracy at 25 °C or 77 °F:	±0.1 pH	±0.1 EC ±1 CF ±50 TDS ±70 ppm	±1 °C ±2 °F



Nutrient



pH



Temperature



Bluelab® Guardian Monitor Connect and Guardian Monitor In-line model: Bluelab® Connect Stick 1 or 2 required for wireless logging & remote alerts. Sold separately.

Bluelab®
Guardian
Monitor

Bluelab®
Guardian
Monitor
Connect

Bluelab®
Guardian
Monitor
Connect In-line

Features

Bright, plant-safe green LED displays with adjustable brightness	✓	✓	✓
Easy to navigate menu to program & adjust settings	✓	✓	✓
Simple push button pH calibration	✓	✓	✓
Flashing silent high and low alarms	✓	✓	✓
Water resistance design and wallmount	✓	✓	✓
Built with high tolerance to RF/ electronic interference	✓	✓	✓
International power supply	✓	✓	✓
Limited product guarantee	2 Years	2 Years	2 Years

Connect Software

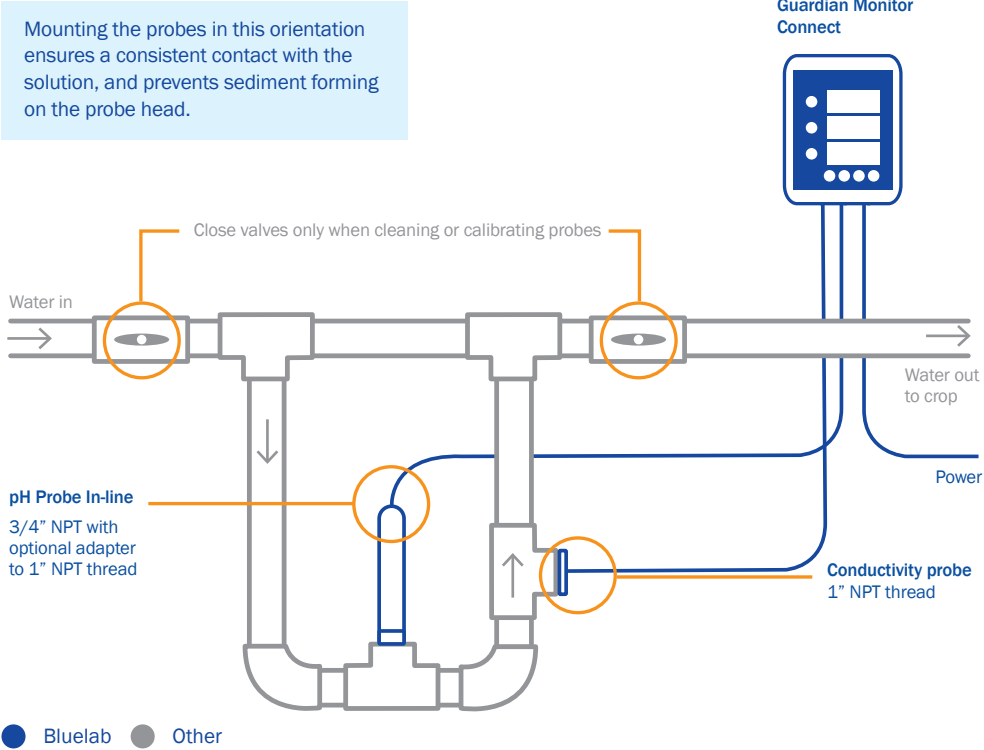
Bluelab® Connect Stick 1 & 2 required for wireless logging & remote alerts, sold separately	-	✓	✓
Log data locally or securely in the Bluelab® Cloud for trend analysis	-	✓	✓
Remote viewing and configuration with FREE Bluelab® Connect software and mobile app	-	✓	✓

Probe

Replaceable double junction pH probe included	✓	✓	✓
No calibration required for conductivity or temperature (factory calibrated)	✓	✓	✓
Selectable conductivity and temperature probe scales	✓	✓	✓
Probe has an NPT thread (Allowing setup as per page 13) and enabling use in high water pressure systems	-	-	✓
Limited product pH Probe guarantee	6 Months	6 Months	1 Year

Bluelab® In-line Probes -
Recommended Installation:

Adjust valve location to suit your
system requirements.



A man with short brown hair, wearing a green and blue plaid shirt over a dark green t-shirt and blue jeans, is kneeling in a greenhouse. He is holding a black handheld device in his right hand and a blue and black probe in his left hand, which is inserted into the soil of a plant in a black pot. The greenhouse is filled with rows of similar plants in black pots. The background shows the glass and metal structure of the greenhouse.

Now you can
measure critical
parameters in the root
zone and repeatedly
unlock new potential
in plants with Bluelab®'s
latest technology.

Root Zone

Measure in root zones and
growing substrates

Root zone EC, moisture and temperature in under 10 seconds



Moisture



Nutrient



Temperature



CODE: METPULSE



Features

- Connects to the Pulse mobile app to auto-sync, view, analyse, and store all your measurements data
- 8" (200 mm) durable probes for direct root zone measurements
- Advanced RF technology measures in a wide range of growing media including soil, nutrient solution, coco coir and potting mix
- Move faster with Blink™ - quick reference light indicators on the device notify if the measurement is in or out of range
- Record notes quickly in the app to track useful information such as measurement location or plant observations
- Low battery indicator
- Export all your data to .csv for further analysis
- 1 x AA alkaline battery included
- Works with iOS 12.1+ and Android 5.1+ with Bluetooth 4.0+

Measure more, faster, and always have your data with you.

Pulse Meter is a new generation of measurement tool that connects directly to your phone to go from measurement to insight in a flash. No more kicking pots or laborious pour-throughs or extractions – Pulse measures root zone moisture, EC and temperature in under 10 seconds.

The long-format, robust probes allow for deeper measurement in the root zone, and the Pulse app brings automated data collection and evolving new features to help support key growing decisions.

Specifications

	Conductivity 0-15 EC
Measurement range:	Moisture Content: 5% - 70% MCvol (mixed media and coir)
	Temperature: 5-40 °C/40-104 °F
Measurement accuracy:	Conductivity* 0.0 - 8.0 EC +/- 0.1EC 8.0 - 15.0 EC +/- 0.2EC
	Moisture Content: +/-5 % MCvol
	Temperature: +/-1 °C or +/-1 °F
Calibration:	Optional calibration available for moisture content to water holding capacity.
Units:	Conductivity - EC
	Moisture Content - % moisture content by volume, % of max water holding capacity.
	Temperature: °C, °F
Probe length:	200 mm/8"
Probe separation:	50 mm/2"
Active tip length+:	50 mm/2"
Minimum pot size:	2 Litre/0.5 gallon
Works with:	iOS 12.1+ and Android 5.1+ with Bluetooth 4.0+
Power source:	1 x AA alkaline battery
User manual languages available:	English
Certifications:	CE and FCC, FCCID: A8TBM7152



Fast, accurate root zone pH measurement



CODE: METMULTI

Features

- Test more with a faster sensor response and direct measurements from substrates
- Measure in soils, potting mixes, coco blends, Rockwool, and nutrient solution
- Toughened spear tip for direct root-zone measurements
- Simple two point calibration process with 30 day calibration indicator
- Backlit LCD display, low battery indicator, auto off function

BONUS CALIBRATION SOLUTION SACHETS INSIDE!



Specifications

	pH
Measurement range:	0.0 - 14.0 pH
Accuracy at 25°C or 77°F:	±0.1 pH ¹
Probe tip:	Toughened, spear
Reference:	Double junction 3.5 M KCl/AgCl/KNO ₃ (gel)
BNC boot:	Yes

The best match: pH Probe KCl Storage Solution 100/250ml, pH 7.0 & 4.0 Calibration Solutions, Bluelab® pH probe care kit

The perfect, portable way to accurately measure and monitor pH levels in a wide range of media.

Take fast accurate measurements in a wide range of root zone substrates including soils, coco blends, Rockwool and potting mixes.

Calibration is simple, with the use of fresh Bluelab® Calibration Solutions and a quick press of a button. Successful calibration indicator is displayed on screen, after 30 days this will disappear to indicate when re-calibration is required.

Team with the Bluelab® Solutions and the convenient Bluelab® Carry Case. Replacement Leap pH Probe also available.

2 metre / 6.6 foot standard cable

pH measurements direct from your media



CODE: PENSOILPH

Features

- Direct measurement of pH and temperature from media and solutions
- Fully waterproof
- Double junction probe (non-replaceable)
- Integrated storage cap/dibber
- Selectable units for temperature
- Backlit LCD display
- Simple two-point calibration process with 30-day calibration indicator
- Hold reading function
- Low battery indicator
- Auto-off function
- Automatic temperature compensation
- 1x AAA replaceable battery included

Specifications

	pH	Temperature
Measurement range:	0.0 - 14.0 pH	0 - 50 °C 32 - 122 °F
Resolution:	0.1 pH	1 °C 1 °F
Accuracy at 25°C or 77°F:	±0.1 pH	± 1 °C ± 2 °F

The best match: pH Probe KCl Storage Solution 100/250ml, pH 7.0 & 4.0 Calibration Solutions, Bluelab® pH probe care kit

Know that your nutrients will be made consistently available to your plants.

The Bluelab® Soil pH Pen provides a pH and temperature reading of media including soil, coco and Rockwool. It works in solutions too.

Accurately monitor pH levels right from the palm of your hand, no need for slurries - making soil pH measuring much quicker and easier.



Using Bluelab® technology in the shape of the Pro Controller and PeriPod System is hassle free, easy to use and maintain. It does everything precisely as it should giving me great peace of mind. This system is monitored through the Bluelab® Connect app on my phone and keeps me informed whenever I am off the property. I have full confidence in the Bluelab® team, as well as their ability to innovate products for growers such as myself.

Scott Pilcher, Pilcher Farms Ltd.
Bay of Plenty, New Zealand



Automation & Control

Automation and control of pH and
nutrient levels in growing systems

Automatic control of pH levels in nutrient solutions, creating stable environments for plants to thrive



CODE: CONTPH



CODE: CONTPHCON

Fine-tune reservoir pH levels and have confidence - your pH is taken care of.

Automatic measuring and adjusting to maintain pH levels with optional alarms. Provides consistent control of pH in a growing system.

Intuitive “on time” and “off time” allows the solution to dose and mix before the controller measures and doses again. Reassurance with safety lockouts to prevent over delivery of pH adjusters.

If your pH isn't in the right range, 5.5 - 6.5 for most plant varieties in hydroponics, your nutrients are likely wasted. Too high or too low, and you're in trouble. The result is nutrient deficiency or complete nutrient lockout. A sure way to unhappy, unhealthy - even dying - plants.

Probe cable length: 2 metres / 6.6 feet

Specifications

pH	
Dosing control parameter:	pH - user selectable single direction (up or down)
Control range:	0.1 - 13.9 pH
Dose rate:	10ml per minute
Resolution:	0.1 pH
Accuracy at 25 °C / 77 °F:	±0.1 pH



Temperature



Bluelab® pH Controller® Connect model: Bluelab® Connect Stick 1 or 2 required for wireless logging & remote alerts sold separately.

The best match:
Bluelab® pH probe care kit, Bluelab® pH Probe



Bluelab® pH Controller

Bluelab® pH Controller Connect

Features

Automatic control of pH Level	✓	✓
Dose either pH up or pH down adjusters	✓	✓
Water Resistance design and wall mount	✓	✓
Plant-safe green back-lit LCD with adjustable brightness	✓	✓
Easy to navigate menu to program & adjust settings	✓	✓
Simple push button pH calibration with on screen instructions	✓	✓
Flashing silent high and low alarms with control lockouts	✓	✓
Built with high tolerance to RF/ electronic interference	✓	✓
International power supply	✓	✓
Limited product guarantee	2 Years	2 Years

Connect Software

Remote viewing and configuration with FREE Bluelab® Connect software and mobile app	-	✓
Log data locally or securely in the Bluelab® Cloud for trend analysis	-	✓
Bluelab® Connect Stick 1 or 2 required for wireless logging & remote alerts, sold separately	-	✓

Probe

Replaceable double junction pH probe included	✓	✓
Separate Bluelab® Temperature Probe (for pH correction)	✓	✓
Limited product guarantee pH Probe	6 Months	6 Months

Automated and constant control of reservoir pH and nutrient levels



CODE: CONTRPRO



Full control of reservoir pH, conductivity and temperature in one place.

When connected to a Bluelab® PeriPod doser, Pro Controller manages and maintains pH and conductivity levels in reservoirs.

As your plants feed, pH and nutrients are automatically adjusted to the desired range.

Probe cable length: 2 metre / 6.6 feet



6 months for pH probe



Nutrient



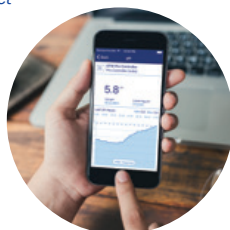
pH



Temperature



Bluelab® Connect Stick 2 included with Bluelab® Pro Controller Connect.



The best match:
Bluelab® Temperature probe & Bluelab® pH probe

Features

- Control pH and conductivity when connected to a dosing system, like the Bluelab® PeriPod
- Multiple nutrients at different ratios
- Easy to navigate menu to program and adjust settings
- Remote viewing and configuration with FREE Bluelab® Connect software and mobile app
- Plant-safe green LED display with adjustable brightness
- Simple pH calibration with on-screen instructions
- High and low alarm control lockouts
- Auto resume dosing on restart after power loss
- Dosing lockouts to protect from over-dosing
- Replaceable Bluelab® probes
- Use Bluelab® PowerPod to connect to other mains operated dosers and/or heating or cooling devices

Specifications

	pH	Conductivity	Temperature
Units:	pH	EC, CF, TDS (EC x 500), ppm (EC x 700)	°C, °F
Control range:	0.1 - 13.9 pH	0.1 - 4.9 EC, 1 - 49 CF 50 - 2450 TDS (EC x 500), 70 - 3430 ppm (EC x 700)	1 - 50 °C, 34 - 122 °F
Resolution:	0.1 pH	0.1 EC, 1 CF 70 ppm, 50 ppm	1 °C, 1 °F
Accuracy at 25 °C or 77 °F:	±0.1 pH	±0.1 EC, ±1 CF, ±50 TDS, ±70 ppm	±1 °C, ±2 °F



Are you in the US?
Inquire about our
Technical Services for
installation and set-up

support@bluelab.com
North America
1-855-252-8352

Easy integration for nutrient solution management.

Your time is extremely valuable, don't waste it manually dosing.

Designed to be teamed with the Bluelab® Pro Controller for a fully integrated solution for optimal reservoir dosing, the Bluelab® PeriPod is a simple and reliable inclusion to your system.

The Bluelab® PeriPod responds to the Bluelab® Pro Controller and pumps pH adjusters and nutrient stock solutions into your reservoir using peristaltic pumps. Accurately measure, control and maintain pH and nutrient levels. Grow sites are all different so now you can choose the pump size to match your set up needs and add optional extras, external alarm box and sample pot, to your nutrient dosing system set up.

Visit bluelab.com to learn which pump size is best suited to your system.



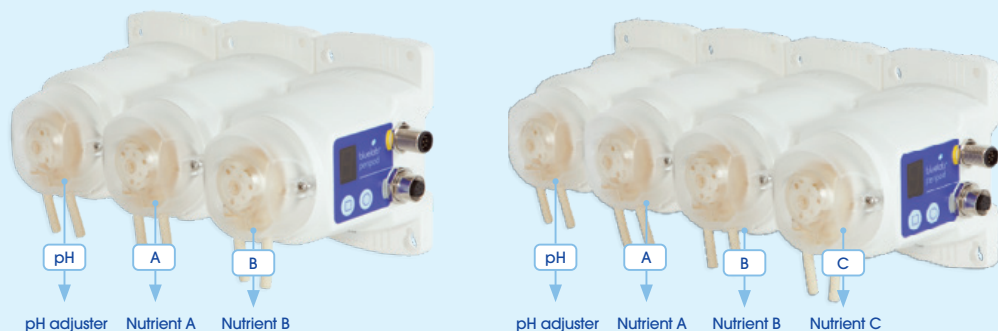
6 months for pumps & tubing

CODES: M3 - PERIPODM3, M4 - PERIPODM4 & L3 - PERIPODL3

M3 & M4



FLOW RATE UP TO:
120 ml / min, 4 fl oz / min
PER PUMP



Features

- Configurable pump function in Bluelab® Connect software (via Pro Controller) - select either pH or nutrient delivery
- Rugged wall mount design
- Individual pump-priming and calibration
- Replaceable peristaltic pumps and tubing
- Compatible with Bluelab® Pro Controller and most Bluelab® Dosetronic models
- Pumps can be calibrated to the viscosity of their nutrient

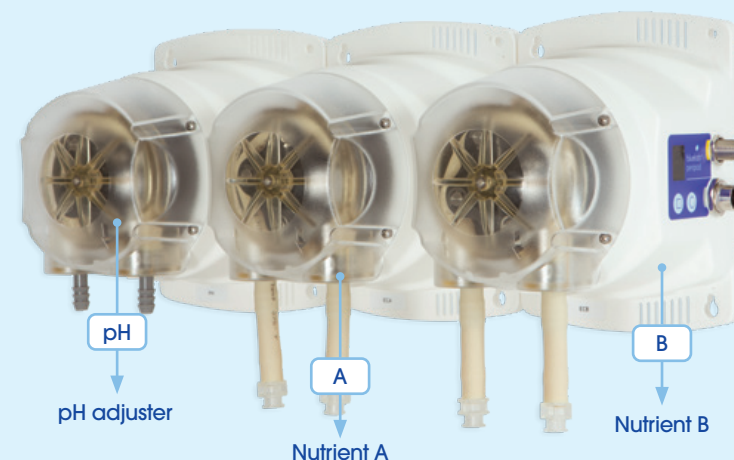
Specifications

	M3 & M4	L3
Pump flow rate per minute:	120 ml 4 fl oz	1200 ml 40 fl oz
Solution temperature:	5 - 50 °C, 41 - 122 °F	
Length:	288 mm / 11.3 in	392 mm / 15.4 in
Height:	112 mm / 4.4 in	154 mm / 6 in
Environment temperature:	5 - 40 °C / 41 - 104 °F	
Acid concentration level using the supplied pH tubing:	Less than 80% Phosphoric, 35% nitric, 30% sulphuric or 20% citric acid by volume	
Flow rate accuracy at 25 °C or 77 °F:	±10%	

L3



FLOW RATE UP TO:
1200 ml / min, 40 fl oz / min
PER PUMP



PeriPod Configuration

Combinations of PeriPods can be connected to dose multi-part nutrient schedules into reservoirs. Individual nutrient ratios are entered and managed via the Bluelab® Connect software.

PeriPod M dosers (M3 and M4) cannot be connected with PeriPod L3 dosers.



1 x pH + 2 x Nutrients - **PeriPod M3**



1 x pH + 3 x Nutrients - **PeriPod M4**



1 x pH + 4 or 5 x Nutrients - **2 x PeriPod M3**



1 x pH + 6 x Nutrients - **PeriPod M4 + PeriPod M3**



1 x pH + 7 x Nutrients - **2 x PeriPod M4**



1 x pH + 8 x Nutrients - **3 x PeriPod M3**



1 x pH + 9 x Nutrients - **PeriPod M4 + 2x PeriPod M3**



1 x pH + 10 x Nutrients - **2x PeriPod M4 + PeriPod M3**



1 x pH + 11 x Nutrients - **3x PeriPod M4**

- pH adjuster
- Nutrients



Easier for
you, better for
the plants

Multi-Part Nutrient Dosing

A new tool in optimising crop performance

Prepare the perfect nutrient recipe at the touch of a button

- Automate the replenishment of nutrient, can also be used for drip to waste.
- Stabilise reservoir pH levels for optimal nutrient availability and plant health
- Maintain a good balance of nutrient parts
- Easily replenish vital micronutrients through the plant cycle improving plant health and yield
- Combine with reservoir level management and feed-out controls for fully automated fertigation
- Manage up to 11 individual nutrient parts and pH with varying ratios with multiple PeriPod M3 or M4 dosers, and Bluelab® Connect software
- Manage up to 8 individual nutrient parts and pH with varying ratios with multiple PeriPod L3 dosers, and Bluelab® Connect software
- Input the nutrient recipe from your feed chart directly into Bluelab® Connect
- Save nutrient recipes to file. Load and run previous recipes, and repeat successes next crop cycle.
- Experiment with nutrient recipe adjustments to achieve new levels of crop performance

bluelab® sample pot

A safe, easy to access location
for Pro Controller probes



CODE: SPOTKIT

A sample pot provides a convenient place in which to locate probes. Having probes simply hanging in a reservoir is not ideal – the pH probe, in particular, is delicate, and having cables continually flexing with the water movement will also cause premature failure of the cable.

A sample pot may also be necessary if the probe cables from the controller are too short for the probes to be submerged in the reservoir (usual in most commercial systems). Most probes also only have 2 metre leads, and most commercial reservoirs are deeper than this. In addition, the nutrient level in the reservoir may drop considerably in flood and drain systems, leaving the probes high and dry.

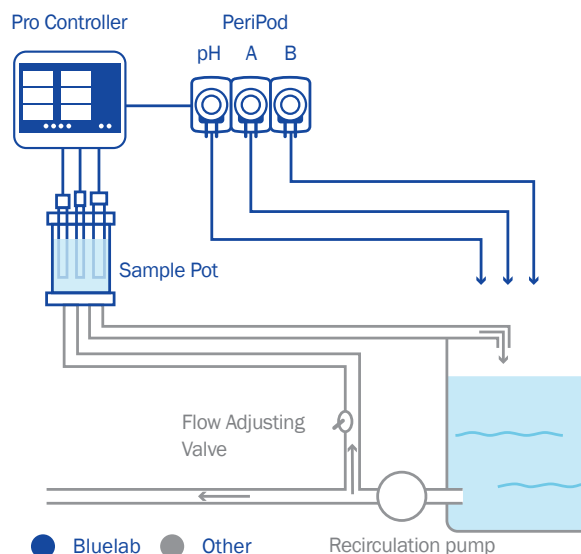
Features

- Perfect for reservoirs located more than 2 metres / 6.6 feet from your controller unit
- Place probes directly into the chamber for direct measurement of nutrient solution
- Fittings included

Sample Pot

A Sample Pot is a safe, easy to access location for Pro Controller probes away from a turbulent reservoir in recirculating systems. A bypass is pulled from the reservoir via the recirculating pump or with a stand-alone pump.

Note: the sample pot needs to be higher than the surface of the nutrient in the reservoir, or the nutrient will syphon out of the pot.



bluelab® Lockout & Alarm Box

Connect the Bluelab® Pro Controller
to external switches



CODE: PROEXBOX

Use to connect the Bluelab® Pro Controller to external switches, for example - a float switch or a greenhouse alarm system.

When these switches are activated, Bluelab® Pro Controller is placed in lockout mode, so no further dosing will occur until reset. A beacon or buzzer can also be used when in lockout mode.

bluelab® powerpod

Controlled mains switching box to
use with a Bluelab® Pro Controller



CODE: POWERPOD



1 Email Bluelab® Customer Support on: support@bluelab.com to check compatibility with Bluelab® Dosetronic.

The PowerPod is an electronically controlled mains switching box that will activate mains powered equipment via control signals from a Bluelab® Pro Controller.

The Bluelab® PowerPod will switch mains powered pH and nutrient dosers for high flow rate applications. The PowerPod will also switch a mains powered reservoir heater or cooler to enable nutrient solution temperature control via a Pro Controller.

Features

- 4 x mains power sockets (with included cable adapters, up to 8.5A max total output power) for pH, EC A, EC B and temperature
- 110/240 V~, 50/60Hz compatible
- Adds temperature control to Bluelab® Pro Controller and some Bluelab® Dosetronic models¹
- Compatible with Bluelab® Pro Controller and Bluelab® Dosetronic models¹

Connect.
Collect.
Analyze.
Maximize.



Bluelab[®]
Connect

Software and mobile apps
for remote monitoring and
supporting growing decisions

Stay connected
to your crop



Download FREE
Connect Software
from: bluelab.com

View readings of essential reservoir measurements on your computer or mobile with our innovative Connect free software suite and mobile apps.

Download the free Desktop version of Bluelab[®] Connect and get alerts, alarms and see the readings from all your Connect devices. Link to the Bluelab[®] Cloud to use Connect for iOS or Connect for Android. View current and historical readings on your mobile device wherever you are.

Connect logs all measurements so you can easily spot trends over your growing cycles. This information can help you identify and resolve issues quickly and adjust Bluelab[®] control equipment settings conveniently from a local computer when used with Bluelab[®] Connect Software and a Bluelab[®] Connect Stick.

System Requirements

Software:

- Windows 7 or later and Java 8
- macOS 10.5 or later and Java 8
- Most Linux distributions running Linux Kernel 3.0 or later with Java 8
- Optional: internet connection for data logging to the cloud and mobile app access

Bluelab[®] App:

- iOS version 9.3 or greater
- Android 4.4 or later



Compact wireless technology
for access to crop data



Data log to computer
with Connect stick



Mobile data visualisation

CODE: CONSTICK2



Features

- Send wireless data 100m/330ft to and from Connect devices within the growing environments and up to 400m/1312ft line-of-sight
- USB connection plugs directly into a computer for fast setup
- Long 3m/10ft cable to position high for best signal performance
- Long-range external antenna for increased wireless range performance
- Wall or surface mount options
- Works with Connect Range Extender 2 for extra-long wireless range - up to 700m/2300ft*
- Uses Zigbee wireless - not Wi-Fi or Bluetooth
- Only one Connect Stick 2 required to receive wireless data from up to 50 Connect devices.
- Free Bluelab[®] Connect Software available from bluelab.com

*Wireless range can be affected by walls and plant canopies which can deteriorate range performance

Get Connected. Improve crop performance and reduce errors with the power of data and remote monitoring.

Receive wireless monitoring data from all Bluelab[®] Connect devices to your computer and smartphone or tablet, then receive important push notifications on your mobile device so you can respond immediately to changes, support growing decisions and improve crop performance.

For use with:

Bluelab[®] Guardian Monitor Connect, Bluelab[®] Guardian Monitor In-line Connect, Bluelab[®] pH Controller Connect, Bluelab[®] Pro Controller Connect, Bluelab[®] Connect Range Extender 1 and 2

Specifications

System requirements:

Bluelab[®] Connect software requires, Java 8 or later, Windows 7 SP1 or later, MacOS 10.8.3 or later, and most Linux that support Java 8+. See website for further details. Internet connection required for the Connect mobile app

Within plant/indoor environment:

Up to 100 m / 330 ft

Line-of-sight:

Up to 400 m / 1300 ft

Frequency band:

2.4 GHz ISM

USB cable length:

3m/10ft

Supply voltage:

5V from USB port of PC

Operating environment:

0 - 50°C / 32 - 122°F

Boost your Connect
signal range even further



CODE: CONEXTEND2

Send Bluelab® Connect wireless data further in large growing facilities and environments.

Simply plug the Bluelab® Connect Range Extender 2 into a power supply between Bluelab® Connect devices and Bluelab® Connect Stick 1 or 2 to increase the wireless signal range. For extra-long distances, multiple Bluelab® Connect Range Extender 2s can be linked.

Increase the wireless range between Blue!a®
Connect devices and the computer by up to four times
when Connect Range Extender 2 is paired with Connect
Stick 2.

For use with:
 BlueLab® Guardian Monitor Connect, BlueLab®
 Guardian Monitor In-line Connect, BlueLab® pH
 Controller Connect, BlueLab® Pro Controller Connect,
 BlueLab® Connect Stick 1 and 2

Features

- Increases wireless data range of Bluelab® Connect products by a further 100m/330ft within the plant environment and up to 400m/1312ft with uninterrupted line-of-sight
- Link multiple Range Extender 2s for extra-long range (up to 700m/2300ft)
- Long 3m/10ft cable to position high for best signal performance. Wall or surface mount options
- Uses Zigbee wireless - not Wi-Fi or Bluetooth
- Water-resistant for the growing environment
- International power supply included

Specifications

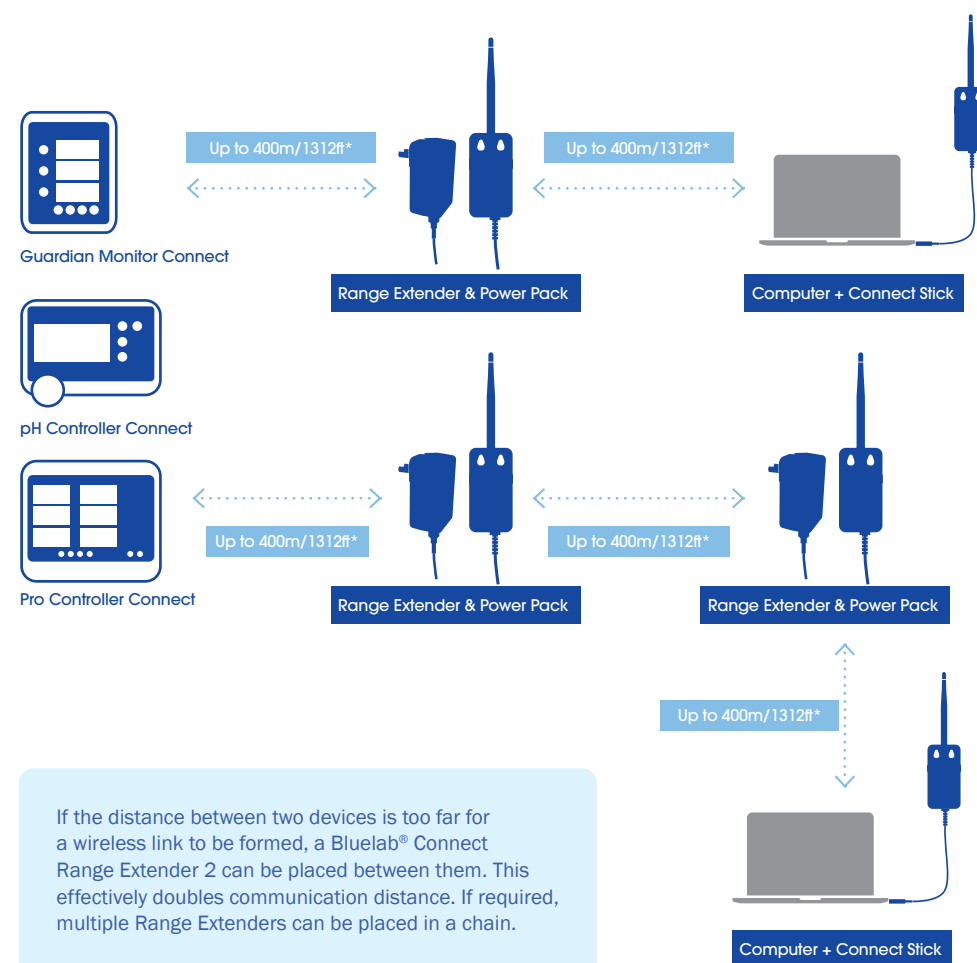
System requirements:	Connect Stick 1 or 2, with computer. Up to 50 Connect devices
*Within plant/indoor environment:	Up to 100 m / 330 feet
*Uninterrupted line-of-sight:	Add up to 400m/1300ft range to Connect system
Frequency band:	2.4 GHz ISM
Cable length:	3m/10ft
Power:	5v, Multi-Region plug
Operating environment:	0 – 50°C / 32 – 122° F

Positioning Bluelab® Connect Devices

Networking overview

BlueLab® Connect forms a wireless network between your computer and all of the devices in your system. These devices are constantly in communication with the computer via the BlueLab® Connect Stick 2, but they have only a limited range over which this is possible.

Data can be passed from one device to another to create a chain to expand the range of the network. Data can be passed from one device to another to create a chain to expand the range of the network up to 700m/2300ft.





"At our old site, we had to hand feed nutrients which was time consuming.

Now we use a Bluelab® Pro Controller, PeriPod and Connect to automate our nutrient dosing. We have better control of EC and pH all the time plus less pH fluctuation."

MICHAEL MIFSUD, OWNER
Paulmar Hydroponics, Melbourne

Integrating
Bluelab® into your
growing system

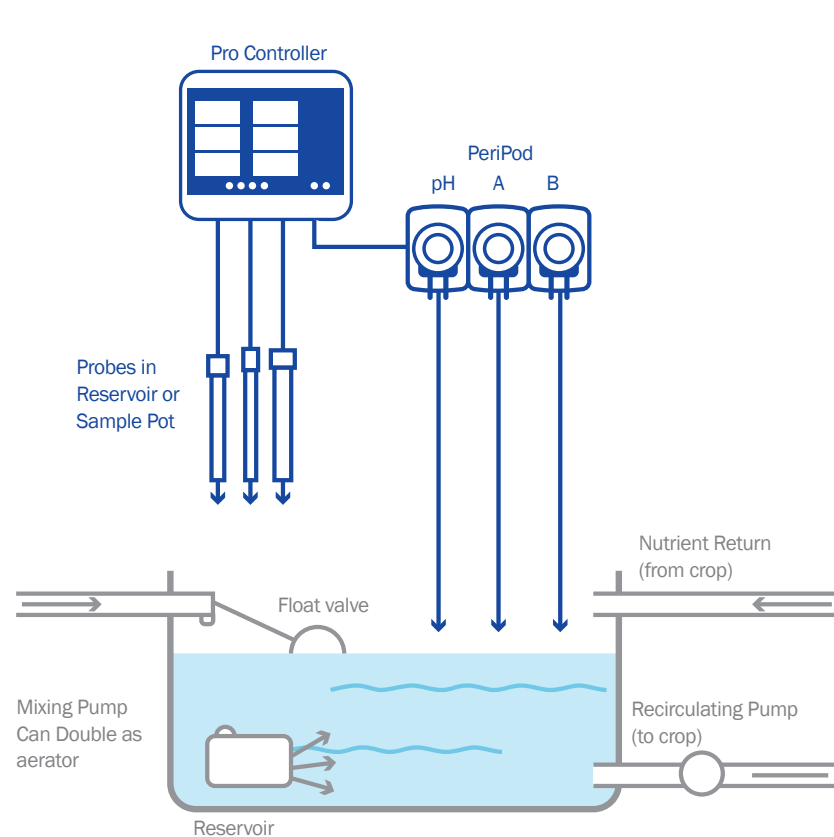
Growing System Diagrams

Pro Controller, PeriPod and their accessories can be used in wide range of growing systems to automate nutrient and pH levels in nutrient reservoirs. Growing systems vary greatly; use these as a indicative guide to set up your system.

Typical Recirculating System Setup

Recirculating

Nutrient solution is continuously recirculated to the crop and back to the reservoir where water, nutrient and pH levels are replenished and adjusted automatically by the Pro Controller and PeriPod.

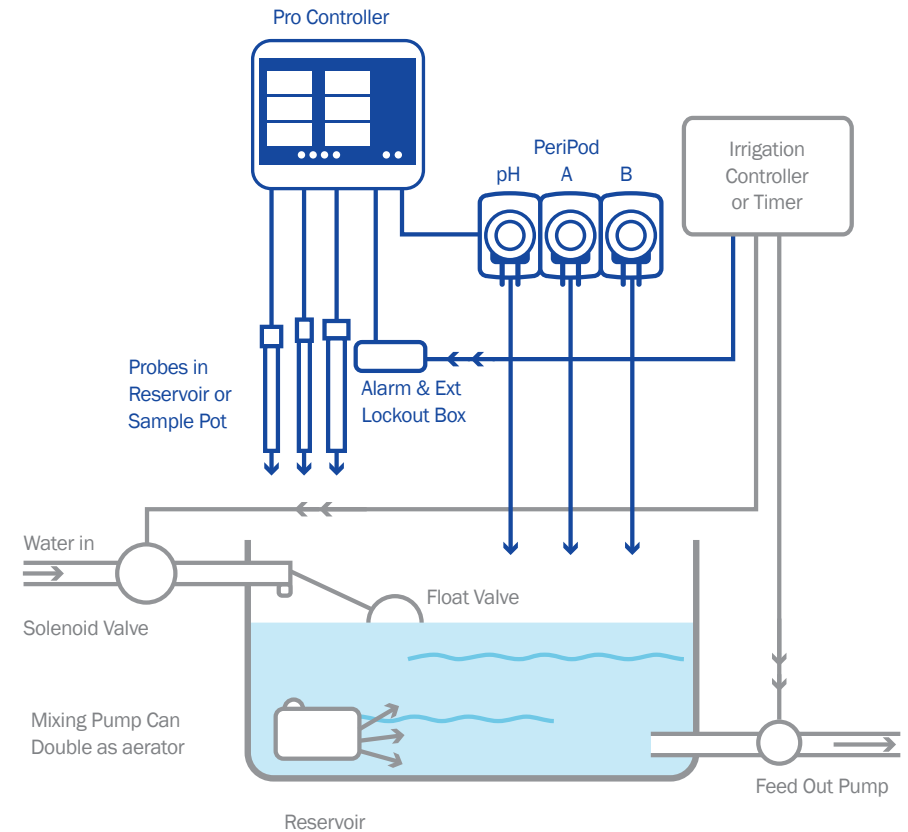


● Bluelab ● Other

Typical Drain to Waste System Setup

Run to waste

Nutrient solution is prepared by the Pro Controller and PeriPod then fed out to the crop at timed intervals via an irrigation timer. The run-off does not recirculate back to the reservoir.

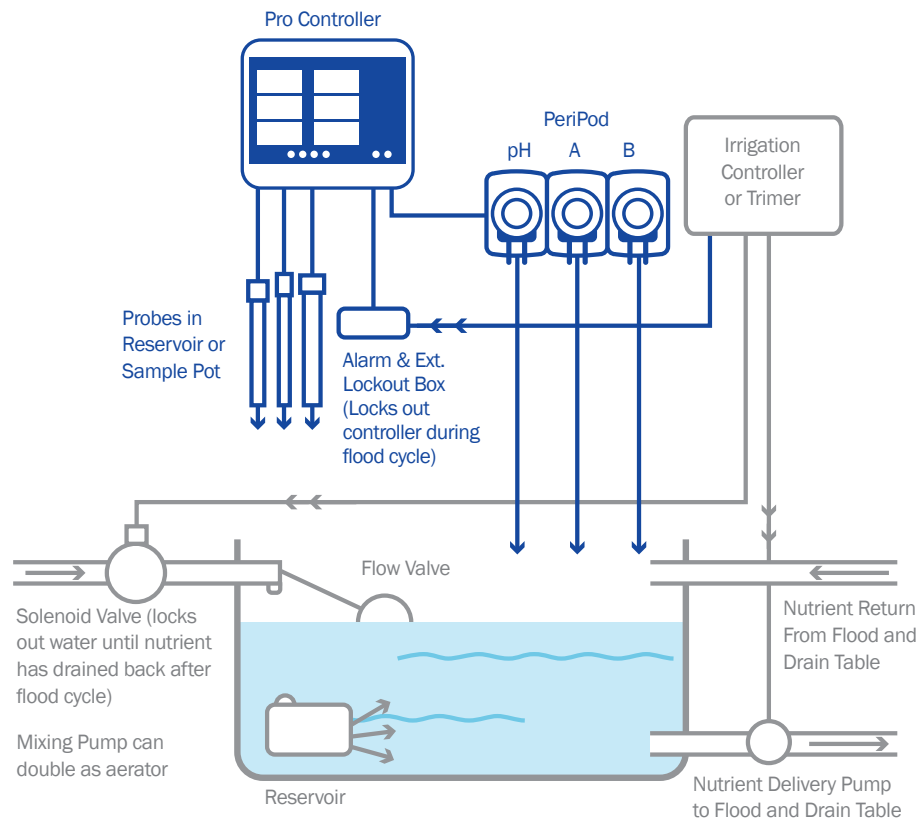


● Bluelab ● Other

Typical Flood and Drain System Setup

Flood and drain

Nutrient solution is prepared by the Pro Controller and PeriPod then fed out to the crop at timed intervals via an irrigation timer. The run-off returns to the reservoir where water is replenished by a level control device, and nutrient and pH levels are replenished by the Pro Controller and PeriPod.




Drawing your own System Setup:

Bluelab® Products

- ☐ Pro Controller Connect
- ☐ PeriPod M3
- ☐ PeriPod M4
- ☐ PeriPod L3
- ☐ Sample Pot + Flow adjusting valve
- ☐ External Lockout & Alarm Box
- ☐ PowerPod
- ☐ pH Up or Down adjuster

Other part required:

- ☐ Recirculating pump
- ☐ Float valve
- ☐ Solenoid valve
- ☐ Mixing pump
- ☐ Reservoir
- ☐ Pipes
- ☐ Nutrient Solutions
- ☐ Flood and Drain Timer

A vertical farm with rows of green leafy plants growing in a structured, industrial setting. The plants are arranged in dense, vertical columns, with some showing signs of aging or damage. The background shows a grid-like structure, possibly a window or a support frame. The overall scene is brightly lit, suggesting an indoor or greenhouse environment.

Keep probes clean
and calibrated with
Bluelab® Care Kits
and Solutions for more
accurate readings.

Care, Accessories
& Upgrades

All the tools you need to care
for Bluelab® probes

pH probe care



CODE: CAREKITPH

Bluelab® pH Probe Care Kit Contents:

- 20ml / 0.67fl oz single-use Bluelab® Solution Sachets, 2 each of: pH 7.0 & 4.0 and KCl
- 3 plastic cups
- Bluelab® pH Probe Cleaner and toothbrush



Probe care is one of the most important parts of owning or operating any Bluelab® meter, monitor or controller.

The probe surface is where the instrument takes the reading of the solution or soil/media.

If the probe face is dirty or contaminated, then the reading will be inaccurate.

Accurate readings help simplify crop management and provide improved growth.

Use Bluelab® Solutions to re-stock your probe care kit.

Conductivity probe care



CODE: CAREKITCON

Bluelab® Conductivity Probe Care Kit Contents:

- 2x 20ml / 0.67fl oz single-use Bluelab® 2.77 EC Standard Solution Sachets
- 1 plastic cup
- Bluelab® Conductivity Probe Cleaner and chamois stick

pH & conductivity probe care



CODE: CAREKITPHCON

Bluelab® pH & Conductivity Probe Care Kit Contents:

- 20ml / 0.67fl oz single-use Bluelab® Solution Sachets, 2 of each: pH 7.0 & pH 4.0, KCl and 2.77 EC
- 3 plastic cups
- Bluelab® pH Probe Cleaner and toothbrush
- Bluelab® Conductivity Probe Cleaner and chamois stick

High-quality solutions formulated for
hydrating and calibrating probes



CODES: PH4500, PH4250, PH420



CODES: PH7500, PH7250, PH720



CODES: EC277500, EC277250

Calibration and conductivity standard solutions... a must in every grower's toolbox.

The Bluelab® calibration and conductivity standard solutions are essential for use with all Bluelab® products.

Bluelab® solutions are manufactured specifically for Bluelab® products and are referenced to high laboratory standards to ensure your Bluelab® products last longer and maintain accuracy.

Available sizes

- Bluelab® pH 4.0 Calibration Solution - 20ml / 0.67fl oz sachet, 250ml / 8.4fl oz bottle, 500ml / 16.9fl oz bottle
- Bluelab® pH 7.0 Calibration Solution - 20ml / 0.67fl oz sachet, 250ml / 8.4fl oz bottle, 500ml / 16.9fl oz bottle
- Bluelab® 2.77 EC Conductivity Standard - (27.7 CF, 1385 ppm 500 scale / 1939 ppm 700 scale) 250ml / 8.4fl oz bottle, 500ml / 16.9fl oz bottle



CODE: STSOL250, STSOL100

Bluelab® pH Probe KCl Storage Solution is the perfect solution to store and hydrate pH probes and pH pens. pH probes are sensitive glass instruments which age through everyday use.

Bluelab® pH Probe KCl Storage Solution is made specifically for use with Bluelab® pH Probes and Pens. It is designed to increase response time and maximize the life of Bluelab® pH Pens and pH Probes. Add KCl solution to the cap of the pH pen/probe for storage after use and to hydrate a pH probe as needed. Instructions are on the label of the bottle.

Bluelab® pH Probe KCl Storage Solution is manufactured to high laboratory standards.

Note: Follow the manufacturer's instructions for use and care of your pH products.

Available sizes

- 100ml / 3.38fl oz bottle, 250ml / 8.4fl oz bottle

Convenient, functional,
protective



The BlueLab® Carry Case provides a custom fit so you can use and read your BlueLab® Meter or BlueLab® Pens right from the case.

A removable and adjustable shoulder strap provides even more comfort and convenience. Simply zip up the BlueLab® Carry Case then tuck it away safely for storage or transport.

Features

- Firm outer casing for impact resistance
- Internal strap to tuck probe cables away tidily
- Two custom pockets to insert BlueLab® Probes or to insert 20ml / 0.67fl oz single-use BlueLab® Solution Sachets, 2 each of: pH 7.0 & 4.0

Note: The BlueLab® Combo Meter, BlueLab® Pens, BlueLab® pH Probe, KCl Storage Solution 100 ml and BlueLab® Solution Sachets are not included with the case.



CODE: METCARRYCASE



Replace the pH probe rather than
the whole BlueLab® Meter

The BlueLab® pH Probe is a replacement pH probe suitable for use with all BlueLab® products that use a BNC fitting.

pH probes have a limited lifespan, they age with everyday use. With proper care and use (keeping the probe tip hydrated and cleaning once a month), you can extend the probe life.

The pH probe tip should be stored in KCl solution to keep the probe hydrated.

2 metre / 6.6 foot
standard cable



CODE: PROBPH



Features

- Easy to clean
- Gel-filled (non-refillable), double junction reference
- Waterproof cable joint
- Probe holder supplied - keeps probe secure

A replacement probe for use
with BlueLab® Guardian Monitor
Connect In-line

The BlueLab® In-line pH Probe can screw directly into female 1" NPT pipe fittings using the included adapter. Threaded probe head allows for simple installation direct into an irrigation line for effective in-line measurements.

The high pressure rated pH probe has a pressure rating of 7 bar pressure or 100 psi.



CODE: PROBPHIN

3 metre /
10 foot cable



Features

- Liquid flow naturally clears the flat pH measurement surface
- High pressure probe, with faster reading response
- 3/4" NPT thread fits in-line mounting, use with 1" adapter
- Gel filled (non-refillable), double junction reference



bluelab[®]
temperature
probe



2 metre / 6.6 foot
standard cable

- Test more with a faster sensor response and direct measurements from substrates
- Multimedia friendly, for measurements across a range of environments
- Toughened spear tip for direct root-zone measurements

- Easy to clean
- Robust stainless steel body
- Waterproof cable joint
- Quality 3.5mm connection
- No calibration required
- Low maintenance
- Waterproof cable joint








Replacement
Parts

Replacement parts for BlueLab® monitors & controllers

Power Supplies

	PWRSGUAR	BlueLab® Guardian Monitor power supply (5 V 1 Amp)
	660016	BlueLab® pH Controller Power Supply or BlueLab® Pro Controller (24 V 0.4 Amp)
	660001	BlueLab® PeriPod power supply M3, M4, L3 (24 V 2.05 Amp)

Tubing



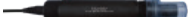


	TUBEACID-L	BlueLab® Acid (white tubing) suitable for BlueLab® PeriPod L series 4m
	TUBEACID-SM	BlueLab® Acid tubing suitable for BlueLab® PeriPod M series (complete with joiners) 4m
	TUBENUT-L	BlueLab® Nutrient black tubing suitable for BlueLab® PeriPod L series (complete with joiners) 4m
	TUBENUT-SM	BlueLab® Nutrient black tubing suitable for BlueLab® PeriPod M series (complete with joiners) 4m
	CONTUBE	Acid tubing for use with pH Controller only (complete with joiners) 4m

Pumps

	PUMPCONT-S	Replacement cassette with small pump (10 ml/min) replacement for BlueLab® pH Controller only
	PUMPCONT-M	Replacement cassette with medium pump (120mls) - replacement for BlueLab® PeriPod M3 or M4
	PUMPCONT-L	Replacement cassette with Large pump (1200ml) pump complete with PharMed tubing and female barb - replacement for BlueLab® PeriPod L3
	PUMPCASS-SM	Replacement small or medium cassette only - suitable for BlueLab® pH Controller or BlueLab® PeriPod M
	PUMPCASS-L	Replacement Large cassette only - suitable for BlueLab® PeriPod L

Replacement parts for Bluelab® monitors & controllers

Probes

	PROBTEMP	Temp probe used in Bluelab® Pro Controller or Bluelab® pH Controller and Bluelab® pH Controller Connect
	PROBPCEC	EC probe for Bluelab® Pro Controller
	PROBPHINLINE	Bluelab® In-line pH Probe for use with Guardian Monitor Connect In-Line
	PROBPH	Bluelab® pH Probe for use with Bluelab® Combo Meter, Guardian Monitor, Guardian Monitor Connect, pH Controller, pH Controller Connect and Pro Controller Connect
	PROBPHLEAP	Bluelab® Leap pH Probe for use with Bluelab® Multimedia pH Meter and Bluelab® Combo Meter Plus

Other

	PULSEPROBCOV	Pulse Probe Cover/Depth Gauge
	TRUNSHROUDV2	Trunccheon® V2 Shroud
	803250	Replacement Conductivity Probe Shroud
	PHPROBECAP	Screw type storage cap for Bluelab® pH Probes
	PHSPEARCAP	Black storage cap for Bluelab® Leap pH Probes
	PROEXBOX	Bluelab® External Lockout and Alarm Box
	PROBHOLD	Suction cup holder for Bluelab® pH Probe
	500013	Alarm cable for use with Bluelab® Pro Controller
	500005	Dosing cable for Bluelab® PeriPod and Bluelab® PowerPod (from Bluelab® Pro Controller)



Learn more
Do more
Get more

Grow your
understanding



Let's Talk

If you need assistance or advice,
we're here to help.

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- P** North America 1-855-252-8352
- P** Europe +31 (0) 85 05 16 848
- E** support@bluelab.com
- F** facebook.com/getbluelab



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Post

Bluelab® Corporation Limited
8 Whiore Avenue
Tauriko Business Estate
Tauranga 3110
New Zealand



Limited Written Guarantee

The Bluelab® product range all come
with a limited written guarantee.
Proof-of-purchase required.