



**DOVE**  
**ASSOCIATES**

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## Information

### pH Meters

Enclosed in your pH meter pack are some buffer solution sachets. Cut the top off the sachet to allow the pH meter to be inserted.

Follow the instructions in the box to calibrate the meter using the buffer solutions. Ideally this should be done every two weeks for the first month then periodically. Further supplies of buffer solution are available from Dove Associates.

Soak the pH meter cell in plain tap water for 24 hours before use to activate the dry cell.

Change the batteries in the pH meter annually. Contact Dove Associates for replacements.

To check the pH of water, insert the cell end of the meter into the water sample from your irrigation system. Read off the pH from the meter after 2 minutes.

**Make sure you and your staff are trained in the safe handling of nitric acid and that you are clothed in all the correct safety clothing before you adjust the pump injection rate.**

Adjust the injection rate of nitric acid until the pH reads 6.0 to 6.5 for most crops or 5.5 to 6.0 for ericaceous plants. Check the water pH from several different parts of the system and under varying flow rates to check the safe operation of injection system. Check the pH daily for the first two weeks and then weekly throughout the rest of the season.

For more information on injection equipment, injection rates or further supplies of buffer solution and batteries, contact the office.

**Use plant protection products safely. Always read the label and product information before use**

Dove Associates shall in no event be liable for any loss or damage caused by the use of products mentioned in this document

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W.86 dia (min) D. 33 Wt. 150g

- These meters, which are powered by plug-in mains adaptors (supplied), can be hung above samples, to continuously display readings. Sealed to IP67.
- **pH Monitor;** double junction, plastic bodied electrode with 2m cable and BNC connector
- **EC & TDS Types;** 2-pin probe with 2m with 3/4in thread for flow through mounting on tanks/pipes etc. Measurements are temperature compensated
- LED alarm and setpoint
- Calibration points
- Moulded hook for easy installation

Supplied with probe, 12V mains adaptor, calibration solution and instructions. A replacement pH probe is available separately.

technical specification			
	pH	Conductivity (EC)	TDS
Range	0.0 to 14.0 pH	0.00 to 9.99mS/cm	0 to 1990 mg/L
Resolution	0.1pH	0.01mS/cm	10ppm
Accuracy	+/- 0.2pH	+/-2% fs	+/-2% fs
Temp compensation		Automatic 5-50°C	Automatic 5-50°C
Alarm setpoints	3 to 11 pH +/- 0.5pH	0.70 to 3.50mS/cm +/- 0.20	500 to 1600 mg/L +/-100
Calibration	2 point at pH 4 and 7	single point adjust	single point adjust

Price on application + VAT



- Separate sensor head and transmitter controller modules
- Transmitter controllers available as either wall mounting or panel mounting.
- Panel mounting is 88mm square and requires
- The wall mounting unit is 126mm wide, 140mm high incl. entry glands (5 x PG9), and 90mm deep.
- The mounting of the sensor is in a module that interfaces into a pvc adaptor that is inserted into the desired pipeline
- Two pH electrode options 0-16 bar or 0-2 bar
- The sensor is for use in either static or dynamic installations
- The controllers allow programming of the unit in ,English, French, German or Italian
- Allows set up of temperature set point, pH set point , alarm output, units of measurement, 4 to 20mA output and pulse output.
- Unit must be mounted vertically and the pH7 sensor must be referenced in p117 buffer solution for 2 hours before installation
- System consists of 6 basic units: PVC pipe fitting DN15, DN20, DN25 or DN50, pH holder, pH electrode, Pt1000 temperature sensor, Cable for pH sensor and Pt sensor, pH transmitter controller wall mount / panel mount

technical specification	
Measuring range	0 to 14pH
Measuring error	±0.2% (depends upon sensor calibration)
Temperature compensation	automatic (Pt1000) reference temp 25°C
Operating temp	0 to 60°C
Supply voltage	12 to 30 Vdc
IP65	O-rings
Sensor housing	PVDF, Orings FRM/EPDM
Display	15 x 60mm LCD 8 digits alphanumeric 15 x segments 9mm high
Analogue output signal	4... 20mA
Load	<1300 ohm at 30V, <1000 ohm at 24 V <550 ohm at 15 V
Relay output	1 relay 3A/220V freely adjustable
Pulse output	Relay 3A/250V max.
Temperature sensor	Pt1000 St/Steel 1.4571 (Ti316)
PVC fittings	DN15, DN20, DN25 and DN50

Price on application + VAT

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## Hand held meters

We can supply a range of hand held meters.

### pH meter

- Dual-level LCD (temperature and pH readings)
- Battery level and stability indicator
- Replaceable pH electrode cartridge
- Automatic calibration
- Waterproof casing with 100% buoyancy
- Operating temperature range: -5 to 60°C



Price: £105.51 + VAT

### Combo' Testers

- A combination tester designed for high accuracy and fast, reliable measurement of pH, EC and temperature.
- Self-check at start up, displaying remaining battery life and ensuring proper working condition
- Stability indicator and hold feature
- Automatic calibration and temperature compensation
- User adjustable EC factor and temperature coefficient factor
- Replaceable pH electrode cartridge with extendable cold junction
- EC graphite electrode for reduced contamination
- Stainless steel temperature probe



Price: £171.25 + VAT

### Calibration sachets

Sachets are available for pH 4.0, 7.0 and 10.0 at £1.25 each. Electrode rinse solution can also be acquired for £1.15 per sachet.

Calibration solution (1 litre) is available for these same pH levels at £20.53 each.

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