

## WARRANTY

This instrument is warranted from all defects in materials and manufacturing for a period of **2 years** from the date of purchase.

**Probes are warranted for a period of 6 months.**

If during this period, the repair or replacement of parts is required, where the damage is not due to negligence or erroneous operation by the user, please return the parts to either dealer or our office and the repair will be effected free of charge.

**Note:** We reserve the right to modify the design, construction and appearance of our products without advance notice.

## SPECIFICATIONS

	<b>ECO406</b>	<b>ECO407</b>
Range	0 to 9.99 mS/cm	0 to 1990 ppm
Resolution	0.01 mS/cm	10 ppm
Accuracy (@25 °C)	±2% f.s.	±2% f.s.
TDS factor	—	approx. 0.7
Probe	<b>AD7632</b>	<b>AD7634</b>
Calibration	Manual, single point, through trimmer	
Temp. Compensation		Automatic
Environment	0 to 50 °C, 95% RH max	
Power supply	External, 12 Vdc	
Dimensions	120 x 134 x 54 mm	
Weight	approx. 300 g	

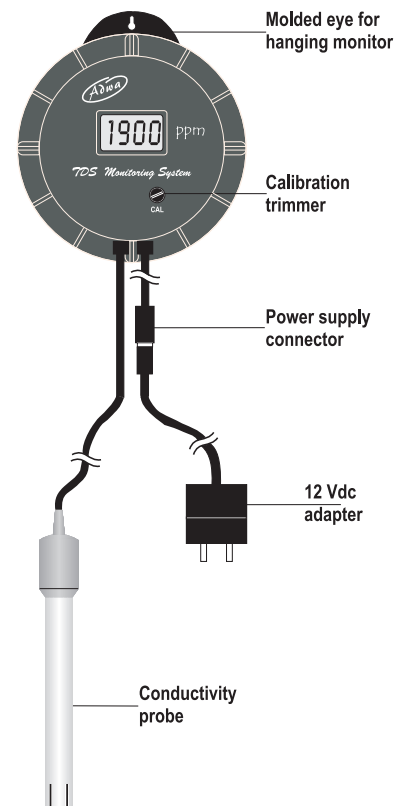
## ACCESSORIES

<b>AD7632</b>	EC probe for ECO406 with 2 m cable
<b>AD7634</b>	TDS probe for ECO407 with 2 m cable
<b>AD70031P</b>	1413 µS/cm EC standard solution, 20 ml sachet (25 pcs.)
<b>AD70442P</b>	1500 ppm TDS standard solution, 20 ml sachet (25 pcs.)
<b>AD70000P</b>	Rinse solution, 20 ml sachet (25 pcs.)



## USER MANUAL

### ECO406 • ECO407 EC • TDS Monitors



## GENERAL OPERATIONS

- Each unit is supplied complete with probe and 12 Vdc adapter.
- Connect the 12 Vdc adapter to the power supply connector and to the mains.
- Make sure the unit has been calibrated before using it.
- For taking measurements immerse the tip (4 cm) of the probe into the solution to be measured, then shake briefly.

**Note:** For accurate measurements it is recommended that the probe does not touch nor stand close to the side walls of the vessel.

- The display will show the EC (**ECO406**) or TDS (**ECO407**) value, in mS/cm or ppm unit respectively. Wait a few seconds for the reading to stabilize and the meter will start continuous monitoring.
- To turn the unit off simply unplug the 12 Vdc adapter from the mains.

## PROBE MAINTENANCE

To minimize clogging and provide longer life to the probe, it is recommended to clean it often, or at least once a month.

- Immerse the tip of the probe in rinse solution for one hour or clean it with detergents used to wash irrigation pipelines and fertilizer vessels.
- If a more thorough cleaning is required, brush the metal pins with very fine sandpaper.
- After cleaning and before storing the probe, rinse it with tap water.

## CALIBRATION PROCEDURE

For better accuracy, frequent calibration of the instrument is recommended.

Anyway the meter should be calibrated at least once a month and after performing probe cleaning procedure.

- Choose the proper calibration solution (see below) and, if possible, use plastic beakers to minimize any EMC interference.
- Use solution **AD70031** (1413  $\mu$ S/cm) for **ECO406** and **AD70442** (1500 ppm) for **ECO407**.
- Immerse the probe in the calibration solution, making sure that the metal pins are completely submerged.
- Using a small screwdriver adjust the CAL trimmer to read "1.41" mS/cm for **ECO406** or "1500" ppm for **ECO407**.
- The calibration is now complete and the instrument is ready for use.

