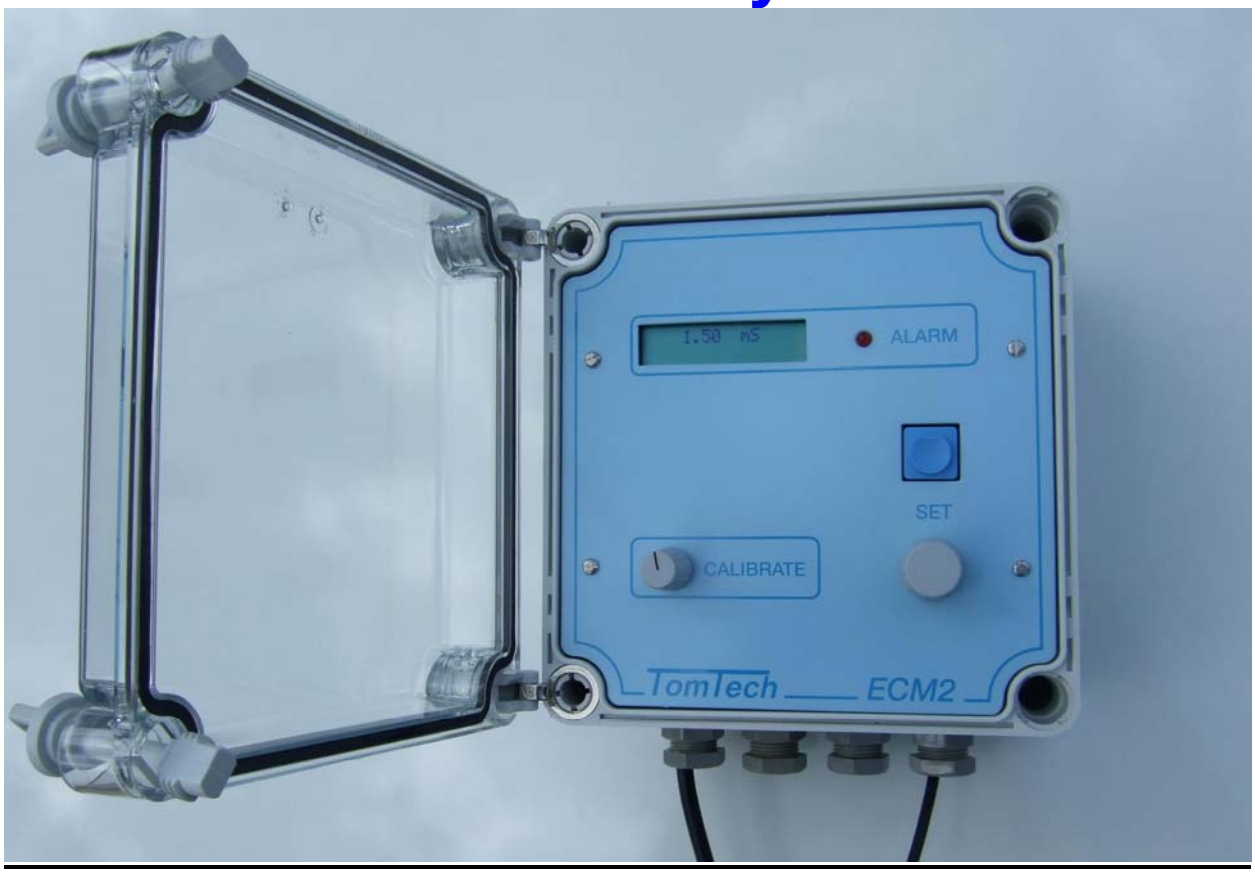
ECM2 Conductivity Monitor



The ECM2 conductivity monitor is a rugged unit providing analogue conductivity signal and relay outputs. The monitor is housed in a waterproof polycarbonate enclosure with clear hinged lid which with the lid closed meets the requirements of IP54. The monitor conductivity input is fully electrically isolated from the outputs for reliable measurement. High and low thresholds may be set to operate the output relay which may be used as an alarm or for control purposes. All electrical connections are accessible via a separate cover below the hinged lid. The ECM2 monitor has the following facilities:

Conductivity Display: A clear liquid crystal display shows conductivity over the range 0 to 10 mS cm-2 with a resolution of 0.01 mS units. The display can be easily read with the front cover closed.

Electrode Input: The input will connect to any conductivity electrode with a cell constant of 1, 2, 5 or 10. The electrode is fully electrically isolated from the ECM2 outputs to 1Kvolt.

Temperature Compensation Input: Three screw terminals for connection to a 10K NTC temperature probe to optionally provide automatic temperature compensation. Temperature compensation is not essential providing the fluid temperature remains nearly constant. The Tomtech ECE1 electrode has a built in temperature probe, with this connected the ECM2 will always display the conductivity corrected to 25 degrees C.

Electrode Calibration: Front panel adjustment allows electrode slope to be adjusted providing calibration of the electrode against a known standard.

Alarm Thresholds: High and low thresholds may be independently set. The ‘Set’ key changes the display between measure, set high alarm, and set low alarm. Adjust the alarm threshold by turning the Set knob.

Alarm outputs: If the current alarm threshold is exceeded this will activate a two pole relay with normally open, common and normally closed contacts and light the front panel alarm lamp. All relay connections are available on terminals. One pole of the alarm is normally used to inhibit dosing while the second is available to operate an external alarm.

Signal outputs: Two outputs are available; 4-20 mA and 0-5v corresponding to the 0 to 10 mS range.

Specification:

Overall Dimensions	220mm. width, 230mm. height,126mm. depth
Electrical supply	120 or 240 volts AC 12VA
Analogue output	4-20mA and 0-5 volt corresponding to 0-10 mS
Relay output	2 pole changeover rated 5A at 240 volt AC

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