

pH-EC Flow Control 5000



pH-EC Flow Control 5000 allows simultaneous, continuous monitoring of pH, conductivity (indication as EC and TDS) and temperature of solutions. The tube-fitting kit provides an easy mounting in all fertigation systems.

Based on the latest microprocessor technology, the instrument has completely been developed and manufactured by STEP Systems in Germany.

The automatic sensor and buffer recognition makes operating errors and misstatements almost impossible – safety of correct application has been perfected.

The display shows temperature, pH, conductivity and TDS values simultaneously.

By exceeding or dropping below the freely adjustable limits:

- **Version without relay output:** inverse graphic indication
- **Version with relay output:** inverse graphic indication and possibility of external alert system and/or control function for dosage pumps.

The tube-fitting kit enables an easy and fast installation and de-installation of the probes (e.g. in case calibration or replacement).

Menu languages: German, English, Russian.

Delivery contents:

- pH-EC Flow Control 5000 basic unit
- pH flow-through electrode
- Buffer solution pH 4 (100 ml)
- Buffer solution pH 7 (100 ml)
- EC flow-through electrode
- Standard solution 1.4 mS (50 ml)
- Standard solution 111.8 mS (50 ml)
- 2 x tube-fitting kits
- 9 V battery
- Power supply, cable length 160 cm
- Operation manual

Inverse indication of measured values when exceeding or dropping below the individually set limits ensures timely intervention in case of failures. The risk of over-fertilization or under-supply of plants by incorrectly adjusted fertilizer mixing systems is minimized.

With an additional relay card (version with relay output), an external alert system can be connected to the integrated outputs and provides a continuous control of dosing systems.

Technical data	
Measuring range	pH 0 - 14; EC 0 - 200 mS/cm; TDS 0 - 106 000 ppm; t° -20...+80 °C
Resolution	0.01 pH; EC 0.01 mS/cm; TDS 1 ppm / t° 0.1 °C
Accuracy	± 0.02 pH / ± 0.5 °C EC/TDS ±2% of measured value
Temperature compensation	with integrated NTC temperature sensor
pH calibration	automatic, at pH 4 / 7 / 10
EC calibration	automatic, at 0.084 / 1.41 / 5.0 / 12.88 / 111.8 mS/cm
EC probe	EC plastic housing probe, 8-pin plug, 110 cm cable
pH probe	gel-filled pH electrode, BNC plug, 110 cm cable
Max. pressure	5 bar (for pH and EC probes)
Data logger	optional (item no. 10140)
Alarm	Version without relay output: visual inverse graphic indication
	Version with relay output: visual and 1 x relay output, Ø 3.5 mm, max. 50 Vac / 1A
Alarm delay	0-255 s after exceeding or dropping below the limits
Conversion factor EC-TDS	automatic
Power	9 V with external power supply (continuous operation)
	or 9 V block battery, > 3,000 measurements (short time operation)
Dimensions	83 x 180 x 55 mm
Weight	300 g (basic unit)

Item-no.	
52030A	pH-EC Flow Control 5000, set
52030R	pH-EC Flow Control 5000 with relay output, set
52020A	pH Flow Control 5000, set
52020R	pH Flow Control 5000 with relay output, set
52015A	EC Flow Control 5000, set
52015R	EC Flow Control 5000 with relay output, set
Components	
52021	pH flow-through electrode
52012	EC flow-through electrode
52009	Tube-fitting kit for one probe (inner diameter 32 mm, outside Ø 40 mm, PVC, without thread)

Further configurations:

pH Flow Control 5000



The pH-Flow Control 5000 is a solid flow meter for continuous pH measurement in pipework.

Delivery contents: pH Flow Control 5000 basic unit, pH flow-through electrode, buffer solutions pH 4 and pH 7 (each 100 ml), tube-fitting kit, 9 V battery, power supply, cable length 160 cm, operation manual.

EC Flow Control 5000



EC Flow Control 5000 allows simultaneous, continuous monitoring of conductivity and temperature of nutrient solutions.

Delivery contents: EC Flow Control 5000 basic unit, EC flow-through electrode, standard solutions 1.4 mS and 111.8 mS (each 50 ml), tube-fitting kit, 9 V battery, power supply, cable length 160 cm, operation manual.