Automate your processes Automate your lab Innovate

Innovate with EasyPREP TITREC

Automated Electro Chemistry Analyzer

Conductivity Measurement

pH Measurement

pH Adjustment

Alkalinity and Acidity Measurement





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Overview

DESIGNED FOR CONDUCTIVITY - pH - ALKALINITY MEASUREMENTS WITHIN THE SAME VESSEL

The *Titr*EC is a multi-parameter robotic platform designed for automated electrochemical measurements of large numbers of samples operating under the stringent requirement of regulated environments. Improved operational efficiency allows laboratories to take on new projects and reallocate personnel towards higher value tasks.

Titrec is designed for laboratory testing of environmental samples

Features

- TitrEC features corrosion resistant components and is designed for long lasting laboratory operation:
 - Acid resistant housing and components
 - Acid and base dispensing using a chemical resistant switching valve in contact with reagents
 - Electronic cards with special coating to prevent corrosion
- Bidirectional titration of acid and base

- Up to 3 point calibration for pH and EC
- Auto washing station prevents sample cross contamination
- Barcoding capability provides automatic loading of sample ID.
- User friendly software, LIMS compatible accommodates 100 ml sample vessels, 47 positions
- Simultaneous pH & conductivity measurement provides quick generation of results

Specifications

ph and ec probe specifications

pH Probe	Specifications	EC Probe	Specifications
Measuring range:	1 – 13.4 pH units	Measuring range:	5.5-100,000 uS/cm
Precision:	≤0.5%	Precision:	<2%
Accuracy:	1% of reading	Accuracy:	10% reading
Electrode slope:	58 mV/pH units	Working temperature:	<2%
Asymmetry:	±15 mV	Cell constant:	1.0 cm ⁻¹

Dispensing volume accuracy and precision

System calibration of dispensing accuracy conforms to ISO 8655-5 and compliant with ISO 17025. ISO 8655-4 tolerance limits are:

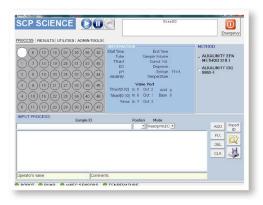
Syringe Volume	Acc	uracy	Pre	cision
ml	± %	± µla	± % ^b	± µl°
1	0.6	6.0	0.2	2.0
5	0.6	30.0	0.2	10.0
10	0.6	60.0	0.2	20.0
25	0.6	150.0	0.2	50.0
50	0.6	300.0	0.2	100

NOTES:

- a. Calculated as deviation from the mean for 10 replicate measurements.
- Calculated as the coefficient of variation for 10 replicate measurements.
- c. Calculated as the standard deviation for 10 replicate measurements.



Software Features





- Load pre-saved methods for fast set-up of routine operations
- Flexible method building
- Real-time visualization of run status
- Allows simultaneous multi-parameter analysis
 - Conductivity, pH, alkalinity and acidity measurements on the same sample
 - pH adjustments as part of sample preparation steps
- Preconfigured and adjustable parameters for alkalinity analysis
 - Allows quick and easy setup according standard methods
 - US EPA 310.1
 - ISO 9963-1
- Intelligent titrant addition algorithm adjusts titrant volume based on sample response
- Dispense up to 2 titrants within a process
- Useful in pH adjustment applications
- Software-controlled pH equilibration time
- Measurements are taken once the electrode has stabilized
- Automatic temperature compensation for pH and conductivity measurements
- Temperature Compensation
 - Report conductivity and pH at 20 °C, 25 °C or other user-defined temperature
- Automatic rinsing of probes between each sample analysis
- Data export in a .cvs format
 - Allows to transfer data onto spreadsheets and LIMS
- Bar coding capability
- Load sample ID lists
- Software provides sample traceability

Titr**EC** Ordering Information

INSTRUMENT	
Description	Catalog #
TitrEC (110V/230V), with software	010-410-001

ITEMS INCLUDED IN THE BASIC CONFIGURATION		
Description	Catalog #	
Platform	010-450-030	
Rack for 100 ml <i>Digi</i> TUBEs, 47 positions	010-410-014	
Temperature Probe	010-410-011	
pH Probe	010-410-010	
Conductivity Probe	010-410-012	
Acid/Base Bidirectional Titrant Delivery Buret	010-410-018	
Blade Stirrer	010-410-016	
Replacement Dispensing Tubing	010-410-021	

Catalog #
010-400-118
010-400-019

DISPENSER	
Description	Catalog #
Syringe, 1 ml	010-400-102
Syringe, 5 ml	010-400-104
Syringe, 10 ml	010-400-108

ACCESSORIES	
Description	Catalog #
Fume Hood, protects samples from environmental contamination and vice versa when using <i>Titr</i> EC , Inside dimensions: D 37.2 x W 31 x H 31.7, Outside dimensions: D 43 x W 32.7 x H 35.7	
PC with Windows OS	

ISO 17025	Request Instrument Certification
and	SYSTEM CALIBRATION OF DISPENSING
ISO 8655-5	ACCURACY CERTIFICATION
COMPLIANT	Catalog # 010-400-050

TO LEARN MORE

Please contact one of our sales representatives at sales@scpscience.com or visit our website www.scpscience.com or comtact one of our regional offices below

COMPUTER SYSTEM REQUIREMENTS

PC Processor:	1GHz or superior
RAM memory:	1 GB RAM
Disk minimum space:	1 GB free
Ports:	1 USB port available
Operatting System:	Windows 8, Windows 7, Windows XP

INSTRUMENT DIMENSIONS

Length	27.5"
Depth	24.25"
Height	24.25"

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