Potentiometric Titrators, Titroline® 7000

SI Analytics

Innovative, multifunction titrators for routine, analytical and Q.C. applications within food, water, waste water and environmental testing regimes.

- Typical applications:
  – Food: salt content, pH value, Formol number, ascorbic acid content, protein and/or calcium levels in dairy products, iodine number, sulphurous acid and/or reducing sugar content in wine and juices
  – Water/environment: pH value, permanganate index, Chemical Oxygen Demand, FOS/TAC (total volatile fatty acids/total inorganic carbon), chloride in waste water, Free and Total chlorine, Total Hardness, dissolved oxygen levels
- High resolution pH/mV and temperature inputs
- Polarisable electrode input for set end-point applications
- Linear and dynamic equivalence point titration modes
- Manual titration and routine dosing functions available
- Membrane keypad operation
- Interchangeable titrant delivery modules of 5ml, 10ml, 20ml or 50ml capacity with built-in RFID reagent data storage available
- High visibility, colour graphics display with titration curve output and equivalence point values
- USB and RS232C outputs allow connection with accessory peripherals such as a printer, balance, personal computer, manual titration controller or USB keyboard

Measurement ranges x resolution		pH	-3.000 to 18.000 x 0.001
		mV	-2000.0 to 2000.0 x 0.1
		µA	0 to 100.0 x 0.1
		°C	-75.0 to 175.0 x 0.1
Dosing	accuracy	+/-	0.15%
	precision	+/-	0.05 to 0.07 (dependent on delivery module chosen) According to DIN EN ISO 8655 pt. 3
Inputs			pH/mV with DIN or BNC socket, µA for double platinum electrode (polarisation voltage fully adjustable from 40 to 220mV). Pt1000 temperature probe (2 x 4mm socket).
Interfaces			3 x USB and 2 x RS232C
Delivery module materials			PTFE/ETFE valve, borosilicate glass cylinder, FEP tubing
Overall W x D x H		mm	153 x 296 x 450
Weight		kg	4.5
Power			a.c. adapter requiring a 100-240V 50/60Hz single phase supply

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As described. Supplied with magnetic stirrer, amber glass titrant reservoir bottle, GL45 and S40 bottle adapters, inlet tubing, drip tube, titration tip, a.c. adapter for 100-240V 50/60Hz single phase supplies and titrant delivery module with capacity as indicated. TR480-50 is additionally supplied with a standard pH combination/temperature electrode and calibration buffers.

TR480-10 TL 7000-M1/10, with 10ml module
TR480-20 TL 7000-M1/20, with 20ml module
TR480-30 TL 7000-M1/50, with 50ml module
TR480-50 TL 7000-M2/20, with 20ml module and pH/temp. electrode

Interchangeable Delivery Modules

Supplied with data RFID chip, amber glass reservoir bottle, GL45 and S40 bottle adapters, drip tube and titration tip. With capacities as indicated.

TR481-05 WA 05, 5ml
TR481-10 WA 10, 10ml
TR481-20 WA 20, 20ml
TR481-30 WA 50, 50ml

TR481-54 TZ 3800, manual titration controller with cable and USB plug
TR481-65 A 7780, Spare/accessory combination pH/temp. electrode
TR481-72 W 5780 NN, Pt1000 probe, glass-coated, range -30 to 135°C, 120 x 6mm length x diameter, with 1metre cable and 4mm plugs

Alternative probes, including ISE, KF and conductivity versions are available - details on request.

TR480