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Coulochem III

Detector Configuration	DC Potentiostat for 1 or 2 cells and Potentiostat for Guard Cell and/or Scan Mode/Pulse Mode
Operating Modes	DC, Pulse, Scan (Time Line method can be attached to DC and Pulse methods)
Potential Range	± 2000 mV in 1 mV steps
Full Scale Current Range	10 pA to 1 mA in 1-2-5 sequence (DC Mode)
Filter Time Constants	0.2 to 10 seconds in 1-2-5 sequence (DC Mode)
Output Noise	< 750 fA (0.75 pA) with a 500 M Ω , 0.47 μ F test load and a 2 second filter (DC Mode)
Signal Output	± 100 mV, ± 1 V
Output Resolution	24 bit bipolar
Guard Cell Potential	± 2000 mV in 1 mV steps
Event Marker	Triggered by front panel keypad, timed operation, or RS-232C control
Autozero	Triggered by front panel keypad, rear panel contact closures, timed operation, or RS-232C control
Function Keys	Autozero, Event Marker, Cell On/Off, Run/Stop
RS-232C Interface Capability	Full parametric instrument control of DC and Pulse
Method Storage	Up to 25 methods (any combination of DC, Scan, Pulse, and

	Time Line)
Power	100/120/230/240 VAC, 50/60 Hz, 24 VA
Dimensions: Detector	28.6 cm (H) x 23 cm (W) x 49.5 cm (D)
Weight	6.7 kg; 14.8 lbs (detector only with DC and Pulse/Scan)
Certifications	UL, CSA, CE
Other	Active input for cell protection
Time Line Specifications (DC and Pulse Mode)	
Programmable Changes	Selectable per channel at times from 0 to 9999.99 minutes in 0.01 minute increments
Autozero, Event Mark	Independently selectable at start of program and with each current range change
Program Start	Via front panel keypad or rear panel contact closure

External-Device Control	Control of up to 5 external devices
Program Control	Current Range, Autozero, Event Mark, Potential, Filter Constant
Program Repeats	1 to 9999
Automated CV Curve	Start and Stop Potential, Potential Increment for automating determination of optimal operating potential



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