

CIC-D200E



Intelligent, Sensitive, and Efficient

Features

- Applicable to IC, HPLC and UHPLC
- With DC ,PULSE and SCAN mode
- The most sensitive electrochemical detector
- Status indication, liquid leakage alarm
- Different flow cells to cover every application
- The autosampler contains dilution function
- The autosampler can perform micro, partial or full loop injection
- Multi position autosampler, continuous operation
- Quad pump, capable of operating four different mobile phases

Technical Parameter

CIC-D200E	
Specifications :	
Mode	DC ,PULSE and SCAN
Working Temperature	10-40°C (indoor use only)
Safety and EMC	According to Ec-directives; Emission Group I Class A;cMETus approved
Sensors	Up to 3 flow cells
Max Current	- 25 nA-25 mA in DC and PULSE mode
Compensation(Autozero)	dependent on range setting +7°C above ambient to 60°C, accuracy
Oven	0.5°C, stability 0.1°C; accommodates column and flow cell(s)
Offset	+50% to - 50% of max. output voltage, 5% steps
Ampere Detector	-1 to +1 V full scale (via 16-bit D/A converter)
Analog Output (DAC)	-2.5 to +2.5 V full scale (unprocessed I/E con-verter signal)
Analog Output (I/E)	
DC mode	
Range	10 pA-200 uA in 1. 2. 5 increments
Filter (ADF)	10-0.001 Hz in 1.2. 5 increments RAW and OFF: for unprocessed data
Potential (EC)	-2.50V to +2.50V with 10 mV increments
Data Rate	1- 100 Hz in 1, 2, 5 increments, dependent on filter setting
Noise	<2pA with dummy cell(load of 300

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Specifications:

		MΩ /470 pF) in 1 nA range, filter off, Ec+800mV and temperature of 35'C
	PULSE Mode	
	Range	10 nA - 200 μA in 1, 2, 5 increments
	Filter (ADF)	OFF: for unprocessed data
	Filter (ADF)	0.5 - 0.001 Hz in 1, 2, 5 increments
	Potential (Ec)	-2.50 V to + 2.50 V with 10 mV increments
	Data Rate	1/(pulse duration) Hz
	SCAN Mode	
	Range	10 nA - 200 μA in 1, 2, 5 increments
	Potential (Ec)	-2.50 V to + 2.50V with 10 mV increments
	Data Rate	1 Hz Scan rate 1 - 100 mV/s in 1, 2, 5 increments
	Cycle	Half, Full, Continuous
	Dimensions	43(D)*22(W)*44(H)cm
	Power requirements	100-240 VAC, 50/60 Hz, 260 VA, auto-sensing
	Weight	Max 14. 4 kg without flow cell and column
	Channel number	Standard: 1 channel Optional: 2 channel
Autosampler	Vials	120 vial, 2ml (standard) 48 vial, 5ml (Optional) 30 vial, 7ml (Optional) 30 vial, 10ml (Optional)
	Automatic dilution ratio	1-10000

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Specifications:

	Syringe pump	250 uL
	Maximum injection volume	1000 uL
	Minimum injection volume	1uL
	Injection mode	Full loop / partial / micro injection
	Injection accuracy	± 1%
	Injection precision	≤0.5%
	Carry-over	≤0.001%
	Dimensions(L*W*H)	520*360*300 mm
	Weight(kg)	20Kg
	Power supply	AC110-240V,50/60Hz,150W
	Fuse	5*20mm,T6.3AL,AC250V
	Pump head	10ml
	Flow rate range	0.001-10ml/min
	Maximum delivery pressure	5800 psi/400 bar/40 Mpa
	Wetted materials	GFP, FKM, PEEK, Sapphire, Aluminiumoxide, Ruby, Zirconiumoxide
Pump	Mixing volume	200µl
	Flow rate increment	0.001ml/min
	Best working condition	0.1-8.0 ml/min
	Continuous working conditions	0. 1-4.0 ml/min
	Pump head material	Ceramic
	Pump type	Analytical IC/HPLC pump
Solvent	Delivery system	Dual serial piston pump
Delivery	Pulsation compensation	Active pulsation compensation
	Piston seal washing	Active wash

	Flow rate accuracy	<1%, measured at 5-50% of max flow range using ethanol/water 10: 90
	Flow rate precision	<0.1%
	System protection	Soft start, Pmin and Pmax are programmable
	Gradient range	0-100 in 0.1% increments
	Gradient formation	LPG
	Liquid temperature range	4-60°C(39.2-140°F)
	LPG: gradient accuracy	±0.3% at 1ml/ min, 150 bar(ethanol/ caffeine tracer)±2%(1-99% measured at 5-50% of the flow range, water/caffeine tracer)
	LPG: gradient precision	<0.1% RSD at 1ml/min, 0.5% RSD overall, based on retention time at constant room temperature
	Degasser channels	4 channels(LPG Versions)
	Max flow rate/channel	10ml/min
	Degassing method	Gas Permeation trough Teflon(R)AF amorphous fluoropolymer membrane
Degasser Module	Degassing efficiency	<0.5 ppm dissolved O2 at 1 ml/min
	Degassing chamber volume	280 µl volume per channel
	Solvent applicability	Universal, with exception of hydrochloric acid and halogenated hydrocarbons
	Wetted materials	PEEK, Tefzel® (ETFC), Systec AF™
Communication	Display	Mobile control(optional)
	Input	LAN, Pin header connectors(Analog IN, Start IN, Error IN)

	Analog inputs	Flow rate, 0-10V via pin header connectors
	Analog control input	Flow rate
	Level/event outputs	8 event outputs(TTL, OC, Relais)and 24 V
	Control	LAN, Analog and event control, Mobile Control
	Leak sensor	Yes
Technical Parameters	Special features	Pump head is detected automatically using radio frequency indentificaion(RFID)
	Ambient conditions	4-40°C(39.2-104°F)Air humidity below 90%, non-condensing
	Power supply	100-240V: 50-60 Hz; Maximum power consumption 100 Watt
General	Dimensions	361 mm x523 mmx 208.2 mm (W x L x H)
	Weight	14.1kg

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