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Dionex ics 6000 manual

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Ion Chromatography (IC) is the premier technique for determining ionic compounds in solution. The basic components consist of an eluent source, pump, sample injector, separating column, suppressor, and detector. As with any lab instrumentation, the IC system should be serviced regularly to ensure peak performance. If problems arise that are not addressed by routine maintenance, the attached troubleshooting guide provides suggested solutions for quickly resuming operation. Description: Environment:Attachment(s): The attached documents provide information for the operation of the Thermo Scientific™ Dionex™ ICS-6000 Ion Chromatography System in English and Chinese. Was this article helpful? Recommended articles Choose from 10 DC models, two temperature versions Standard version is for applications requiring an upper zone temperature of 18-40 °C. Low temperature is for capillary applications requiring an upper zone temperature of 10-40 °C. Three convenient sections for automation, detection, and separation Configure the automation section with two Dionex IC Cube modules or with the Thermo Scientific™ Dionex™ Automation Manager (for standard bore and microbore columns only). Use up to two Dionex IC detectors in series or parallel. Employ up to six separate temperature zones simultaneously: separation section, detection section, two detectors and Dionex IC Cube modules or postcolumn reaction coils. Robust Amperometric Detection Improved performance, reduced band broadening and lower backgrounds with volume- and flow-optimized detector cell, improved reference electrode and minimized dead volume Excellent detection from high to low concentrations with microprocessor-controlled digital signal processing Improved stability and lower noise from the integrated electronics between the cell and detector Easy calibrations and diagnostics from innovative, built-in electronics Simple, snap-in installation automatically recognized by Thermo Scientific™ Dionex™ Chromeleon™ Chromatography Data System (CDS) software—no cables or tools required Compact installation with minimal tubing lengths for up to two detector modules in the same Dionex ICS-5000+/ICS-6000 DC Detector/Chromatography Compartment Easily reproducible electrode and cell gasket installation thanks to Yoke-Knob design Flexible Applications Choice of DC amperometry, cyclic voltammetry and integrated amperometry, including three-dimensional—current, voltage, retention Ready to optimize for individual analytes with choice of multiple waveforms and integration times Flexible configuration for use in series with another detector or parallel for dual detection Complete freedom to change waveform profile segments using integrated amperometry mode Choice of control through Chromeleon CDS software or locally through TTL inputs 3-D display of raw integrated amperometry data similar to PDA data display using Chromeleon CDS software 6.8 or later Choice of pH/Ag/AgCl electrode or optional extended-lifetime, reduced-calibration palladium hydrogen reference electrode No headers Was this article helpful? Recommended articles Description: Environment:Attachment(s): This manual provides instructions for the initial installation of the Thermo Scientific Dionex ICS-5000+/6000 Capillary HPLC System. Was this article helpful? Recommended articles Choose from three configurations Dionex ICS-6000 Single Channel Capillary RFIC System use this single channel capillary IC system to run one analysis at a time, 24/7. Dionex ICS-6000 Dual Channel Capillary RFIC System This dual capillary system can run two different analyses concurrently on a single sample, or analyze two samples in parallel. Alternately, run the same analysis on both channels to double throughput. Dionex ICS-6000 Carbohydrates Analysis Capillary IC System use this capillary IC system for analyzing carbohydrates with ion exchange chromatography and electrochemical detection. High pressure ion chromatography, high performance Fast, sensitive separations without sacrificing resolution—up to two times faster with Fast IC columns Outstanding resolution using columns with small-diameter particles, thanks to high-pressure capability Continuous operation at up to 5000 psi when configured as a Thermo Scientific™ Reagent-Free™ IC (RFIC™) system Optimized peak resolution with a choice of isocratic and electrolytic gradient separations on each channel Powerful and user-friendly operation using Thermo Scientific™ Dionex™ Chromeleon™ Chromatography Data System (CDS) Wide variety of chemistries available in Thermo Scientific capillary and Fast IC columns Flexible, easy to configure, modular design Time-saving dual system option The capillary advantage Always ready with 24/7 uptime and minimal calibration and equilibration time Up to 18 months of continuous operation on one Eluent Generation cartridge Small dead volumes for minimized peak dispersion Reduced eluent disposal costs—only 15mL/day if eluent used for continuous operation at 10µL/min Enhanced ease-of-use: Dionex IC Cube houses capillary consumable cartridges with simple, color-coded connections Flexible support for capillary columns of 0.2–0.6mm I.D. Application Flexibility Typical flow rate range: 5–20µL/min Column i.d.: 02–0.6mm Typical yearly eluent usage: 5.25L Seamless sample preparation capabilities Dionex autosamplers integrate seamlessly with all Dionex ICS-6000 HPLC systems, providing effortless automation and advanced sample preparation capabilities. Description: Environment:Attachment(s): Installation instructions Was this article helpful? Recommended articles

