**IA-300 Ion Analyzer**

**Simple simultaneous multiple ion analysis for everyone**

**Ion analysis made easy and accessible!**

- **High-sensitivity, high-reliability**
  Reproducible data obtained by ion chromatography method

- **Easy to operate - anyone can use it!**
  Simple operation
  Just simply inject samples to obtain measurements.
  Results are displayed by graphic screen and printed out simultaneously

  Special knowledge, techniques not required
  Chromatograph functions have been integrated into a single unit. Data analysis/calculation are also performed automatically by the analyzer.

  All reagents required for analyses are available
  (to be sold separately)
  No special equipment required

- **Multiple ion analysis**
  Select either a 7 Anions (F, Cl, NO₃, Br, NO₂, PO₄, SO₄) or 6 Cations (Li, Na, NH₄, K, Mg, Ca) analysis mode.

- **Multi-sample continuous analysis**
  By connecting to the ICA-200AS Auto Sampler (to be sold separately), automated multi-sample analysis is possible.

DKK-TOA CORPORATION
Measurement example

The analysis results can be displayed and printed out as quantitative values and chromatograms.

Anions

Cations

Analysis data display

Chromatogram

Printout

Specifications

Model: IA-300
Measurement method: Ion chromatography
Display: Graphic LCD display panel with back-light
Measurement items:
- Anions: F, Cl, NO₂, Br, NO₃, PO₄, SO₄
- Cations: Li, Na, NH₄, K, Mg, Ca
Sample measurements: Loop-cut system 20 µL or 200 µL
Calibration method: 1-point calibration by specific calibration solution
Measurement modes:
- Suppressor Anions analysis (using PCI-205 column)
  - Meas. Item: 20 µL loop
  - Meas. Item: 1/2 value Cations analysis (using PCI-322 column)
  - Meas. Item: 200 µL loop

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Meas. Item</th>
<th>20 µL loop</th>
<th>200 µL loop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Li</td>
<td>0.05-10.0 mg/L</td>
<td>0.005-1.0 mg/L</td>
<td></td>
</tr>
<tr>
<td>Na</td>
<td>0.25-50.0 mg/L</td>
<td>0.025-5.0 mg/L</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>0.5-100.0 mg/L</td>
<td>0.05-10.0 mg/L</td>
<td></td>
</tr>
<tr>
<td>Mg</td>
<td>0.25-50.0 mg/L</td>
<td>0.025-5.0 mg/L</td>
<td></td>
</tr>
<tr>
<td>Ca</td>
<td>0.5-100.0 mg/L</td>
<td>0.05-10.0 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

Measurement time: 15 min. 18 min.
Constant-temperature part: Constant-temperature of column/detection cell unit: 40 ± 4°C
Detector: Conductivity sensor
Data processing unit: Built-in (automated calculation)
Printer: Built-in thermal printer
Output: Analog: 0 - 1 V
Digital: RS-232
Operating temp. range: 10 - 35°C
Electric power supply: AC 100 V 50/60 Hz
Main unit dimensions: approx. (W) 190 x (H) 470 x (D) 530 mm

Note 1: The written analysis modes are examples. Please make inquiries regarding other analysis modes.
Note 2: Conforms to all analysis modes used by earlier ion analyzers.

CAUTION

Do not operate products before consulting instruction manual.

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Information and specifications are for a typical system and are subject to change without notice.

Issued on 10/7/2012