

IA-300 Ion analyzer

Easy simultaneous measurement of multiple ions

- Six cations or seven anions can be measured
- Anion are available for both suppressor and non-suppressor systems.

DKK-TOA CORPORATION

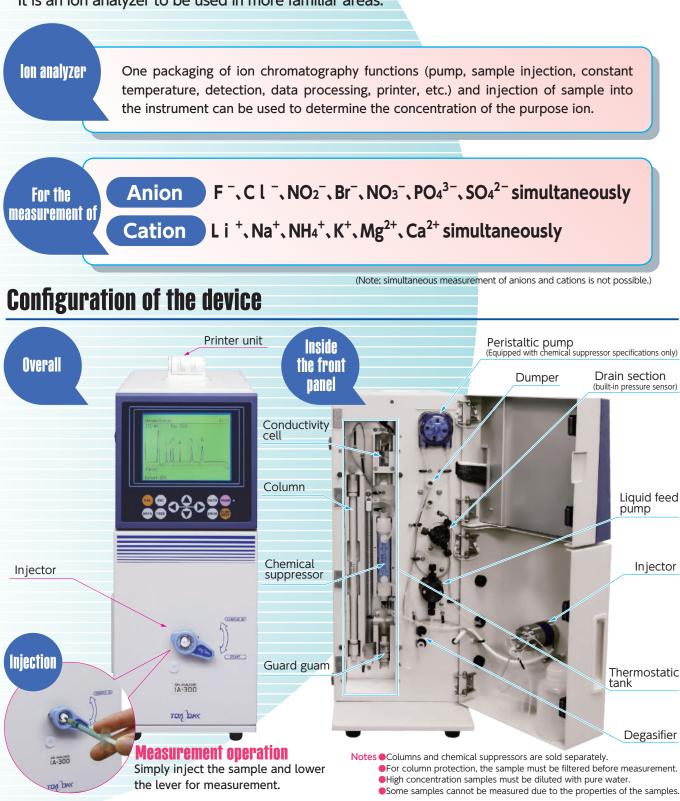
IA-300

אם אםד

SAMPLE IN

Ion analysis is easier and more accessible!

The ion analyzer is a measuring instrument using ion chromatography as a measuring principle. Ion chromatography is a reliable method used in many official methods such as JIS. It is used not only in environmental measurement, but also in a variety of fields, including raw materials, production lines, quality inspections, and wastewater measurement. It is an ion analyzer to be used in more familiar areas.



Features

Set measurement conditions with mode selection

Six cations or seven anions can be measured using ion chromatography.

Measurement mode	Measured ion
1, Divalent cation simultaneous measurement mode.	Lithium ion, sodium ion, ammonium ion, Potassium, magnesium, and calcium ions
Anion measurement mode	Fluoride ion, chloride ion, nitrite ion, Bromide, nitrate, phosphate, and sulfuric acid

Automatic processing for analysis and calculation

Analysis and calculation of measurement data are performed automatically by the instrument itself.

Compared with ion chromatographs, which process data PC, the processing time can be drastically reduced.

Can be converted to hardness and nitrogen content.

(For details, refer to the measurement example on page 5.)

A suppressor method was also adopted for anion measurement.

In addition to the conventional measurement conditions, an anion measurement mode using an ion exchange membrane suppressor has been added.

The measurement accuracy of phosphate ions is improved, and the measurement range of each ion is widened. (For details, refer to the specifications on page 9.)

Various reagents are available (sold separately).

Since various reagents are available for measurement, they can be used immediately without any special equipment such as pure water or balance.

Reduced labor by automatic measurement of multiple samples

The autosampler ICA-700AS, sold separately, is available for automatic measurement of multiple samples. (See page 6 for details.)

Easy maintenance

All column changes and piping can be operated on the front. It also provides on-screen, easy-to-understand support for maintenance and troubleshooting instructions.

Maintenance mode Pump manual operation Tube washing Pressure check Flow rate fine-tuning Degasser set up. Pump1 use situation Pump2 use situation	14:13	Pressure check1 14:16 Please remove tube A of column outlet connection part. Is the pressure after flow start normal? Injector A <u>Pump</u> <u>Guard Column J Cell</u>
Pump is moved manually.		Pressure:00.0MPa
Select:↑↓ Return:ESC Enter:ENTER End:FUNC		Flow:ST/SP No:CAL Return:ESC Yes:ENTER End:FUNC
Maintenance mode display example		Pressure check mode display example

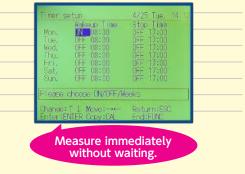
Various convenient functions

Simple procedure for introducing the eluent Small amount of leftover The cock is loosened below 3mL even with in-line counterclockwise. and the attached syringe degasser. is used for priming. Operate without Eluent displacement is disconnecting the piping also smooth. Adoption of large isothermal parts Columns, guard columns, suppressors, and detection cells were all housed in the thermostat. Improved stability and reliability of measurement int;ST/SP Data:DATA After starting the equipment, specific equipment status such as pressure and electric conductivity value is displayed.



Timer function assuming various handling

You can set the time to start or stop the instrument for each day of the week.

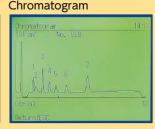


Display and Printing Examples

Quantitative values and chromatograms can be displayed and printed.

Anion calibration data Example of calibration data display Measurement data No. 122 Diutron:1 Diutron:1

1 F03 401 mg/ F 4 0,491 mg/ 3 C 1 1995 mg/ 4 002 1.00 mg/ 5 Dr 1992 mg/ 7 S04 1.97 mg/ 7 S04 1.97 mg/ 8 lest1 1 Chro.:→ Potum:E90 9 honget- PrintENTER FodUATA



Printing example

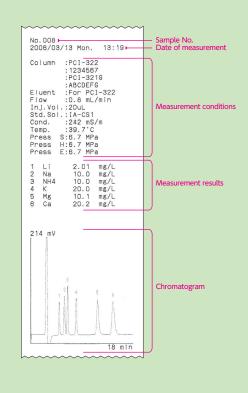
This is an example of printing a calibration result. Calibration results are printed unconditionally regardless of the printer settings.

TDA_DHK DKK-TOA CORPORATION ION ANALYZER IA-300 Version 0.0 Serial No. :538491 2006/03/13 Mon. 12:59	Header
2008/03/10 Fri. 17:59 Column :PC1-205 :A8C0EFG :PC1-2056 :I234567 Eluent :For PC1-205 Flow :1.0 mL/min Inj.vol.:20UL Std.Sol.:1A-AS1 Plate :5594 (S04) Rs :2.3 (CI-NO2) Cond. :1.6 mS/m Temp. :38,7'C Press S:5.7 MPa Press E:5.7 MPa	Date of calibration Measurement conditions Type name of the designated eluent Currently set flow value Injection volume Model name of specified calibration solution Number of theoretical plates Resolution Electrical conductivity at start Cell temperature at start S:Starting pressure Hintermediate pressure EEnd pressure
RT Area 1 F 3.23 35564.8 2 CI 4.27 50670.6 3 N02 4.86 30844.6 4 Br 5.71 19537.7 5 N03 6.31 24933.4 6 P04 9.80 55947.0 7 S04 11.33 67259.6	Calibration result Elution Time (RT) Area
Calibration OK (1)	Calibration judgment result (1):Available (2):Close to the time of replacement
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Chromatogram

Cation calibration data Example of calibration data Example of calibration data Chromatogram Station of the second s

Printing example

This is an example of printing sample measurement results.





100 mV

Chromatograms can be printed on the specified display scale.

Printing to match the low density



●E	xample of conve	rsion printing of n	ogen, phosphorus, sulf	ur, and hardness
Tap water	Anion Factor 1 1 F 0.099 mg/L 2 Cl 16.0 mg/L 3 NO2 0.000 mg/L 4 Br 0.000 mg/L 5 NO3 9.00 mg/L 6 PO4 0.000 mg/L 7 S04 30.8 mg/L	Cation Factor 1 1 Li 0.000 mg/L 2 Na 9.55 mg/L 3 NH4-N 0.000 mg/L 4 K 2.39 mg/L 5 Mg 4.49 mg/L 6 Ca 23.0 mg/L	Anion C Factor 1000 1 F 0.000 mg/L 2 Cl 16.0 mg/L 2 Cl 16.0 mg/L 4 Br 0.000 mg/L 4 Br 0.000 mg/L 5 N03-N 1.20 g/L 6 P04-P 4.44 g/L 7 S04-S 78.0 mg/L 192 mV	Factor 10000 1 Li 0.000 mg/L 2 Na 2.17 3 NHA-N 33.1 4 K 50.3 5 Mg 0.000 mg/L 6 Ca 0.000 mg/L
	1620 mV	176 mV		87 mV
	2 7		5 6	
			2 15 min	
Rain water	Anion Factor 1 1 F 0.000 mg/L 2 CI 0.480 mg/L 3 N02 0.018 mg/L 4 Br 0.000 mg/L 5 N03 3.11 mg/L 6 P04 0.000 mg/L	Cation Factor 1 Li 0.000 mg/L 2 Na 3 NH4 0.930 mg/L 4 K 0.385 mg/L 5 Mg 0.052 mg/L	Factor 5 1 F 0.085 mg/L 2 Cl 42.6 mg/L 3 N02-N 0.000 mg/L 4 Br 0.000 mg/L 5 N03-N 18.3 mg/L	Factor 1 1 Li 0.000 mg/L 2 Na 45.6 mg/L 3 Ni4+N 0.078 mg/L 4 K 10.8 mg/L 5 Mg 5.79 mg/L 6 Ca 25.5 mg/L
ater	6 PO4 0.000 mg/L 7 SO4 2.17 mg/L 119 mV	6 Ca 0.935 mg/L GH 2.55 mg/L 25 mV	8 P04 1.06 mg/L 7 S04 31.3 mg/L 822 mV	G Ca 25.5 mg/L GH 87.4 mg/L 662 mV
	5	8	2	
	2 / 1		1 0 1	
	15 min		15 min	18 min
•Ex	-	ee types of hard	ess printing	
	Cation	Cation	Cation	
Mineral	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 4 K 0.531 mg/L			
Mineral water	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L	Factor 2 1 Li 0.176 mg/L 2 NH4 0.000 mg/L 3 NH4 0.000 mg/L 5 Mg-hd 120 mg/L 6 Ca-hd 40 mg/L 6H 528 mg/L 551 mV 551 mV	Factor 1 1 Li 0.000 mg/L 2 Na 18.1 mg/L 3 NH4 0.000 mg/L 4 K 15.2 mg/L	
-	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 4 K 0.531 mg/L 5 Mg-H 8.33 mg/L 6 Ca-hd 17.0 mg/L GH 25.4 mg/L	Factor 2 1 Li 0.176 mg/L 2 NH4 0.000 mg/L 3 NH4 0.000 mg/L 5 Mg-hd 120 mg/L 6 Ca-hd 40 mg/L 6H 528 mg/L 551 mV 551 mV	Deep Factor 1 1 0.000 mg/L 2 Na 16.1 mg/L 3 NH4 0.000 mg/L 4 K 15.2 mg/L 5 Mg-hd 208 mg/L 6 Ca-hd 46.9 mg/L 6H 255 mg/L	
Mineral water Domestic	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 4 K 0.531 mg/L 6 Ca-hd 8.33 mg/L 8 Ca-hd 25.4 mg/L 78 mV	Factor 2 1 Li 0.176 mg/L 3 NH4 0.000 mg/L 5 Mg-ha 120 mg/L 6 ca-hd 40 0.00 mg/L 5 Mg-ha 120 mg/L 528 mg/L 5 Mg-ha 528 mg/L 528 mg/L 551 mV 551 s s 6 1 4 4 4 5 5	Factor 1 1 Li 0.000 ms/L 2 Na 18.1 ms/L 3 NH4 0.0000 ms/L 4 K 15.2 ms/L 5 Ms-hd 208 ms/L 6 Ca-hd 48.9 ms/L 6 H 48.9 ms/L 784 mV 5 4 mV 6 4 mV 6 4 mV	
-	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 4 K 0.531 mg/L 5 Mg-H 8.33 mg/L 6 Ca-hd 17.0 mg/L GH 25.4 mg/L	Factor 2 1 Li 0.176 mg/L 2 NH4 0.000 mg/L 3 NH4 0.000 mg/L 5 Mg-hd 120 mg/L 6 Ca-hd 40 mg/L 6H 528 mg/L 551 mV 551 mV	Factor 1 1 Li 0.000 mg/L 2 Na 18.1 mg/L 3 NH4 0.000 mg/L 4 K 15.2 mg/L 5 Mg-Nd 208 mg/L 0 Ca-hd 48.9 mg/L 0 Hd 48.9 mg/L 784 mV 5 Mg-Md 48.9 mg/L 10 mg/L	
r Domestic	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 5 Mg-hd 8.33 mg/L 6 Ca-hd 17.0 mg/L 7 Mg-hd 25.4 mg/L 7 mv 10 mg/L 10 mg	Factor 2 1 Li 0.178 mg/L 3 NH4 0.000 mg/L 5 Ng-hd Mg/L 6 Ga-hd 408 6 GH 528 mg/L 551 mV 551 mV 6 GH 528 mg/L 551 mV 10 mg/L 6 GH 528 mg/L 51 mV 10 mg/L 120 mg/L	Per view of the second	
r Domestic	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 4 K 0.0531 mg/L 6 Ca-Hd 17.0 mg/L 6 Cd 4 J 78 mV 6 Cd 4 J 78 mV 18 min 5 Mg/L 6 Cd 4 J 18 min 6 Cd 4 J 18 min 6 Cd 4 J 18 min 18 min 14 K 259 mg/L 2 Na 23.7 mg/L	Mineral water Foreign countries $Factor 2 \\ 1 & Li 0.178 & mg/L \\ 3 & NH4 0.000 & mg/L \\ 4 & K 7.54 & mg/L \\ 6 & Gahd 528 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 510 & mg/L \\ 528 & mg/L \\ 5$	Per view of the second	Anion mg/L Factor 1 mg/L 1 Li 0.000 mg/L mg/L 2 NH4 0.000 mg/L
r Domestic	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 4 K 0.0531 mg/L 6 Ca-H 17.0 mg/L 78 mV 6 GH 25.4 mg/L 78 mV 18 min Factor 5 74 b.48 mg/L 18 min Factor 5 10.480 mg/L 2 Na 23.7 mg/L 3 NH4 14.6 mg/L	Mineral water Foreign countries $Factor 2 \\ 1 & Li 0.178 & mg/L \\ 3 & NH4 0.000 & mg/L \\ 4 & K 7.54 & mg/L \\ 6 & Gahd 528 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 510 & mg/L \\ 528 & mg/L \\ 5$	Peep water Factor 1 1 Li 0.000 ms/L 2 Na 18.1 Ms/L 3 NH4 0.000 ms/L 5 Ms-Hd 208 ms/L 6 Ca-14 48.9 ms/L 6 Ca-14 48.9 ms/L 6 H 255 ms/L 74 mV 6 Cation Factor 1 784 mV 6 Cation Factor 1 764 mV 6 Cation Factor 1 764 mV 784 mV 787 mV 797 mV 797 mV 797 mV 797 mV 797 mV 797 mV 797 mV 797 mV 797	Anion mg/L Factor 1 mg/L 2 Na 7.89 mg/L mg/L 2 Na 7.89 mg/L mg/L 4 K 1.05 mg/L
r Domestic	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 4 K 0.0531 mg/L 6 Ca-H 17.0 mg/L 6 Cd-H 25.4 mg/L 7 mg/L 6 mg/L 18 min Factor 5 1 Li 5 Na 23.7 mg/L 8 mg/L 8 mg/L 8 mg/L 9 m	$\begin{tabular}{ c c c c c } \hline Factor & 2 & & & & & & & & & & & & & & & & & $	Peep water Factor 1 1 Li 0.000 mg/L 2 Na 18.1 mg/L 3 NH4 0.000 mg/L 4 K 15.2 mg/L 5 Mg-Nd 208 mg/L 0 Ca+hd 48.9 mg/L 0 Ca+hd 48.9 mg/L 0 Ca+hd 48.9 mg/L 784 mV 5 2 4 5 784 mV 5 784 mV 5 784 mV 5 784 mV 5 784 mV 6 784 mV 5 784 mV 6 784 mV 784 mV 78	Anion mg/L Factor 1 mg/L 1 Li 0.000 mg/L mg/L 2 Na 7.89 mg/L mg/L 3 NH4 0.000 mg/L mg/L 4 K 1.05 mg/L mg/L 5 Mg 10.2 mg/L mg/L 6 Ca 51.0 mg/L
r Domestic	Factor 1 1 Li 0.000 mg/L 2 Na 4.42 mg/L 3 NH4 0.000 mg/L 4 K 0.0531 mg/L 6 Ca-H 17.0 mg/L 6 Cd-H 25.4 mg/L 7 mg/L 6 mg/L 18 min Factor 5 1 Li 5 Na 23.7 mg/L 8 mg/L 8 mg/L 8 mg/L 9 m	Mineral water Foreign countries $Factor 2 \\ 1 & Li 0.178 & mg/L \\ 3 & NH4 0.000 & mg/L \\ 4 & K 7.54 & mg/L \\ 6 & Gahd 528 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 551 & m^{V} \\ 6 & Gahd 68 & mg/L \\ 510 & mg/L \\ 528 & mg/L \\ 5$	Aly Factor 1 1 Li Na 18.1 Ms/L 3 NH4 0.000 ms/L 2 Na 18.1 Ms/L 3 NH4 0.000 ms/L 5 Ms/L 6 Cathol 784 mV 5 Ms/L 6 Cathol 18 min 5 Cation Factor 10 min 5 Moz 2 Cation Factor 1 Soft 9 Soft	Anion mg/L Factor 1 mg/L 1 Li 0.000 mg/L mg/L 2 Na 7.89 mg/L mg/L 3 NH4 0.000 mg/L mg/L 4 K 1.05 mg/L mg/L 5 Mg 10.2 mg/L mg/L 6 Ca 51.0 mg/L

Peripheral equipment

Reduced labor by automatic measurement of multiple samples

Autosampler ICA-700AS

Features

Simply connect with a dedicated cable^{*1}

When it is connected by a dedicated cable, the sample in the vial of No.1 is judged as a standard solution, and automatic calibration is performed with IA-300.

•Automatic measurement of 100 continuous samples

The vial rack is equipped with two 50 samples as standard. (One sample is used as a standard solution.)

Interaction with IA-300 Timer Function

IA-300 can be automatically started and stopped



Connecting to an IA-300



Model name	ICA-700AS
Display	Backlit LCD
Sample container	2mL dedicated container
Injection volume of sample	1 to 1000 μ L (1 μ L step)
Number of samples	Up to 100 samples (50 samples x 2)
Sample injection type	Loop mode
Material of wet part	PEEK, ETFE, β titanium
Operating temperature range	5 to 35°C
Cooler Unit (Optional) *2	Presence/absence
Power supply	AC100 to 240V 50/60Hz
Power consumption	Max. 20VA
External dimensions	263 (wide) × 220 (high) × 416 (deep) mm
Weight	11.8kg

 With cooler unit (optional)

%1 Specify IA-300 of the connected model when ordering.%2 Coding for purchasing cooler unit alone is 133A047.

Peripheral equipment

For data management using a PC

Data-gathering software **GP-LOG**

The data can be imported to a PC in a textual format by RS-232C. The software can be downloaded free of charge after you register.

RS-232C cable is sold separately. (Code Number: 0GC00002)

Convenient function

The results can be stored after the measurement is completed.

Press the "Start" button on GP-LOG to wait while receiving, and press the "Stop" button after reading is completed to add the time-in period and send the data to the PC.

2	А	B	С	D	E	7 (AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1	2017/5/9	13:02:19	DM	1	2017/4/12 14:32		2.01	mg/L	Mg	1	7.71	mg/L	Ca	1	20.5	mg/L	GH	1	83.1	mg/L
22401							L			-				-			-			

You can load data (up to 100 data) stored in IA-300 memory.

Starting No. and ending No. can be set from the "DATA" key on IA-300 and can be imported into the PC. (For 1-data, set the starting No. and ending No. to the same.)

	А	В	С	D	E	Ĩ.
1	2017/5/9	13:03:07	DM	1	2017/4/12 14:32	
2	2017/5/9	13:03:07	DM	2	2017/4/12 15:35	
3	2017/5/9	13:03:07	DM	3	2017/4/12 16:07	
4	2017/5/9	13:03:08	DM	4	2017/4/12 16:28	
5	2017/5/9	13:03:08	DM	5	2017/4/13 9:18	
6	2017/5/9	13:03:08	DM	6	2017/4/13 9:38	
7	2017/5/9	13:03:08	DM	7	2017/4/13 10:06	
8	2017/5/9	13:03:08	DM	8	2017/4/13 10:28	
9	2017/5/9	13:03:09	DM	9	2017/4/13 10:57	
10	2017/5/9	13:03:09	DM	10	2017/4/13 11:54	

/	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
	2.0 1	mg/L	Mg	1	7.71	mg/L	Ca	1	20.5	mg/L	GH	1	83.1	mg/L
	0.949	mg/L	Mg	1	1.05	mg/L	Ca	1	4.56	mg/L	GH	1	15.7	mg/L
	0.047	mg/L	Mg	1	0.917	mg/L	Ca	1	8.43	mg/L	GH	1	24.8	mg/L
	0.138	mg/L	Mg	1	0.909	mg/L	Ca	1	1.24	mg/L	GH	1	6.83	mg/L
	5.17	mg/L	Mg	1	2.32	mg/L	Ca	1	5.11	mg/L	GH	1	22.3	mg/L
	0	mg/L	Mg	1	0.486	mg/L	Ca	1	0.068	mg/L	GH	1	2.17	mg/L
	3.96	mg/L	Mg	1	1.31	mg/L	Ca	1	0.143	mg/L	GH	1	5.76	mg/L
	2.54	mg/L	Mg	1	0.002	mg/L	Ca	1	0.581	mg/L	GH	1	1.46	mg/L
	2.53	mg/L	Mg	1	0.448	mg/L	Ca	1	0.946	mg/L	GH	1	4.21	mg/L
	1.14	mg/L	Mg	1	0.636	mg/L	Ca	1	0.302	mg/L	GH	1	3.37	mg/L

Real-time data acquisition is also possible.

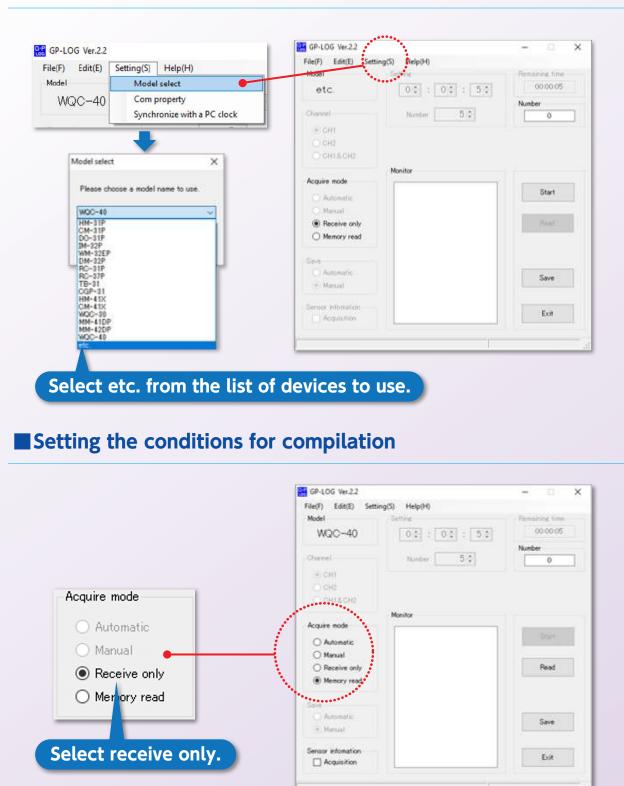
Press the "Start" button on GP-LOG to wait while receiving, and after completing measurement, press the "Stop" button for each measurement to add the take-in period and send the data to the PC.

	A	В	С	D	E	F
1	2017/5/9	13:04:28	CD	7		
2	2017/5/9	13:04:28	100 0			
3	2017/5/9	13:04:28	101 0000.0	00 02524.63	88 000.0 0	8.5 39 39.7
4	2017/5/9	13:04:28	101 0000.1	00 02524.63	88 000.0 0	8.5 39 39.7
5	2017/5/9	13:04:28	101 0000.2	00 02524.63	88 000.0 0	8.5 39 39.7
6	2017/5/9	13:04:28	101 0000.3	00 02524.63	88 000.0 0	8.5 39 39.7
7	2017/5/9	13:04:28	101 0000.4	00 02524.63	88 000.0 0	8.5 39 39.7
8	2017/5/9	13:04:28	101 0000.5	00 02524.63	88 000.0 0	8.5 39 39.7
9	2017/5/9	13:04:28	101 0000.6	00 02524.63	88 000.0 0	8.5 39 39.7
10	2017/5/9	13:04:29	101 0000.7	00 -2480.47	7 000.0 0	8.5 39 39.7
11	2017/5/9	13:04:29	101 0000.8	00 -2480.47	7 000.0 0	8.5 39 39.7
12	2017/5/9	13:04:29	101 0000.9	00 -2480.47	7 000.0 0	8.5 39 39.7
13	2017/5/9	13:04:29	101 0001.0	00 -2480.47	7 000.0 0	8.5 39 39.7
14	2017/5/9	13:04:29	101 0001.1	00 -2480.47	7 000.0 0	8.5 39 39.7
15	2017/5/9	13:04:29	101 0001 0			

				0						
	2017/3/9	J.LL.EV								
10790	2017/5/9	13:22:26	101	1078.7	00				00	39.7
10791	2017/5/9	13:22:26	101	1078.80	00	-0019.569	000.0	08.5	39	39.7
10792	2017/5/9	13:22:26	101	1078.90	00	-0019.552	000.0	08.5	39	39.7
10793	2017/5/9	13:22:27	101	1079.00	00	-0019.542	000.0	08.5	39	39.7
10794	2017/5/9	13:22:27	101	1079.10	00	-0019.542	000.0	08.5	39	39.7
10795	2017/5/9	13:22:27	101	1079.20	00	-0019.544	000.0	08.5	39	39.7
10796	2017/5/9	13:22:27	101	1079.30	00	-0019.544	000.0	08.5	39	39.7
10797	2017/5/9	13:22:27	101	1079.40	00	-0019.556	000.0	08.5	39	39.7
10798	2017/5/9	13:22:27	101	1079.50	00	-0019.572	000.0	08.5	39	39.7
10799	2017/5/9	13:22:27	101	1079.60	00	-0019.572	000.0	08.5	39	39.7
10800	2017/5/9	13:22:27	101	1079.70	00	-0019.589	000.0	08.5	39	39.7
10801	2017/5/9	13:22:27	101	1079.80	00	-0019.589	000.0	08.5	39	39.7
10802	2017/5/9	13:22:27	101	1079.90	00	-0019.605	000.0	08.5	39	39.7
10803	2017/5/9	13:22:28	103							
10804	2017/5/9	13:22:28	102	0						

Setting GP-LOG of the data-collection software

Setting of the equipment used



Specifications

Item	Contents
Model name	IA-300
Measurement method	Ion chromatography
Measurement items	Anion (non-suppressor type)PO4, F, Cl, NO2, Br, NO3, SO4Anion (suppressor type)F, Cl, NO2, Br, NO3, PO4, SO4Cation 1 and divalent simultaneousLi, Na, NH4, K, Mg, Ca
Repeatability	2% C.V. or less in the calibration solution
Sample injection	Manual sample injection and manual valve switching
Sample measurement	Loop-cut loop volume $20 \mu L$ or $200 \mu L$
Measurement time	10 to 18 min/batch (according to measurement conditions)
Calibration	One-point calibration using the specified calibration solution
Column oven	40±4℃
Data Processing	Built in
Detection part	Method : Electrical conductivity detection Cell temperature control : $40\pm4^{\circ}$ C
Display	Graphic LCD
Printer	Built-in thermal printer
Operating temperature range	10 to 35° C However, no abrupt temperature change
Output	Analogues: 0 to 1V Digital: RS-232C
Power supply	AC100V 50/60Hz
Power consumption	Max. 250VA
DIMENSIONS • WEIGHT	Approximately $190(wide) \times 469(high) \times 530(deep)mm$ and approx. 18kg

Standard accessories

1mL disposable syringe
●Syringe needle
•Sample loops (20, 200 μ L) (1 each)
Syringe set for air bleeding
●Spanners (6 x 8, 8 x 10) (1 each)
Hexagon wrenches (1.5mm,2.5mm,3mm)(1each)
Plunger seal replacement jig
Printer paper (Volume 2)
●AC cable
•2P transmitter adapter
●Ground wire
Ring instructions manual

Measurement range

Mode/Measurement Ion Type		When 20 μ L loop is used	When using a 200 μ L loop				
PCI-322 / 1, divalent cation determination	Li	0.050 to 10.00mg/L	0.005 to 1.00mg/L				
	Na、Mg、NH₄	0.250 to 50.0mg/L	0.025 to 5.00mg/L				
	(NH ₄ -N)	(0.194 to 38.8mg/L)	(0.019 to 3.88mg/L)				
	К、Са	0.500 to 100mg/L	0.050 to 10.0mg/L				
	F、Cl、Br	1.00 to 100mg/L	0.100 to 10.0mg/L	PCI-322			
	NO ₂	1.00 to 100mg/L	0.100 to 10.0mg/L	FCI-322			
	(NO ₂ -N)	(0.305 to 30.5mg/L)	(0.031 to 3.05mg/L)				
PCI-2015 /	NO ₃	1.00 to 100mg/L	0.100 to 10.0mg/L				
Anion measurement	(NO3-N)	(0.226 to 22.6mg/L)	(0.023 to 2.26mg/L)				
(non-suppressor)	SO ₄	2.00 to 200mg/L	0.200 to 20.0mg/L				
	(SO ₄ –S)	(0.668 to 66.8mg/L)	(0.067 to 6.68mg/L)				
	PO ₄	5.00 to 200mg/L	0.500 to 20.0mg/L	A CONTRACTOR OF A CONTRACTOR A			
	(PO ₄ -P)	(1.63 to 65.2mg/L)	(0.163 to 6.52mg/L)	Set			
	F、Cl、Br	0.500 to 50.0mg/L	0.050 to 5.00mg/L				
	NO ₂	0.500 to 50.0mg/L	0.050 to 5.00mg/L				
	(NO ₂ -N)	(0.152 to 15.2mg/L)	(0.015 to 1.52mg/L)	PCI-2015/211			
PCI-211 /	NO ₃	0.500 to 50.0mg/L	0.050 to 5.00mg/L				
Anion measurement	(NO3-N)	(0.113 to 11.3mg/L)	(0.011 to 1.13mg/L)	For			
(non-suppressor)	SO ₄	1.00 to 100mg/L	0.100 to 10.0mg/L				
	(SO ₄ –S)	(0.334 to 33.4mg/L)	(0.033 to 3.34mg/L)				
	PO ₄	2.50 to 100mg/L	0.250 to 10.0mg/L				
	(PO ₄ -P)	(0.815 to 32.6mg/L)	(0.082 to 3.26mg/L)				
PCI-205 / Anion measurement (suppressor)	F、Cl、Br	0.050 to 50.0mg/L					
	NO ₂	0.050 to 50.0mg/L					
	(NO ₂ -N)	(0.015 to 15.2mg/L)					
	NO ₃	0.050 to 50.0mg/L		and the second se			
	(NO3-N)	(0.011 to 11.3mg/L)					
	SO ₄	0.100 to 100mg/L		DCI 205			
	(SO ₄ –S)	(0.033 to 33.4mg/L)		PCI-205			
	PO ₄	0.250 to 100mg/L					
	(PO ₄ -P)	(0.082 to 32.6mg/L)		Ball			

Required parts for each measurement mode (sold separately)

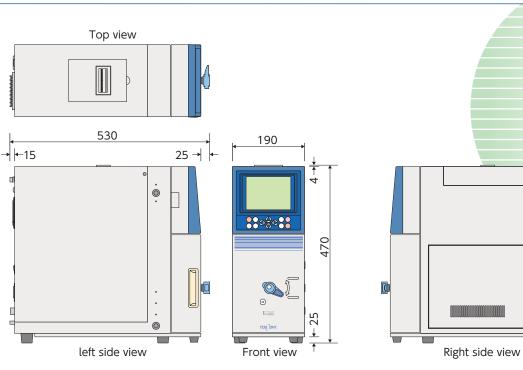
Moosurom	ant mode	Parts			Necessary items	Quantity, etc.
Measurement mode		Name		Model name		
		Anion exchange column		PCI-205	0	11 bottle
		Guard column		PCI-205G	0	1 bottle
Anion meas	surement	Chemical suppressor		6813690K	0	1 bottle
PCI-205 mc	de	Calibration solution	For 20 μ L loop	IA-AS1	0	100mL 1 books
Suppressor		Eluent	1L	143H063	0	1 bottle
		Removal solution	1L	143H071	0	1 bottle
		Tank inlet pipe		6547830K	0	With 2L tank
		Anion exchange column		PCI-211	0	1 bottle
		Guard column		PCI-211G	0	1 bottle
Anion mea	surement	Calibration solution	For 20 μ L loop	IA-AS1	△*1	100mL 1 books
PCI-211 mc	ode		For 200 μ L loop	IA-AS2	△*1	100mL 1 books
Non-suppre	essor	Eluent	2L	6547760K	0	1 bottle
		Eldeni	5L	6547770K	△*2	1 bottle
		Tank inlet pipe		6547830K	0	With 2L tank
		Cation column		PCI-322	0	1 bottle
		Guard column		PCI-322SG	0	1 bottle
Cation mea		Calibration solution	For 20 μ L loop	IA-CS1	△*1	100mL 1 books
PCI-322 mo Simultaneo	ode us determination of		For 200 μ L loop	IA-CS2	△*1	100mL 1 books
1 and 2 val		Eluent	2L	143H061	0	1 bottle
		Eident	5L	143H062	△*2	1 bottle
		Tank inlet pipe		6547830K	0	With 2L tank

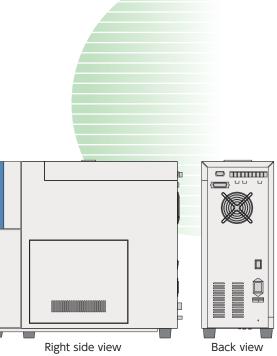
*1 : Requires either a 20 μ L loop or a 200 μ L loop. *2 : 5L is used for refilling.

Other common parts

Parts		Overstitu	Notes	
Name	Model/Code No.	Quantity		
Printer paper	PAP-HCS	Volume 5	Thermal recording paper	
RS-232C connecting cable	0GC00002	1 bottle	A commercially available USB serial transmitter is required to connect to USB.	

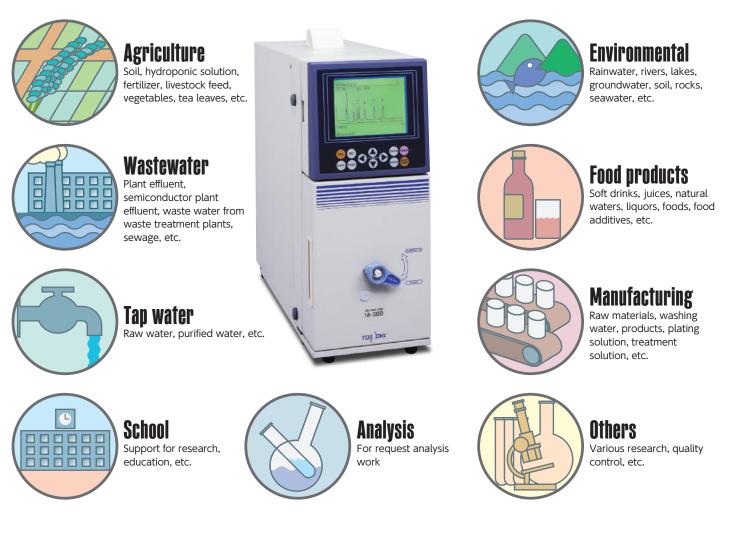
Dimensions (Unit :mm)





We provide high-level solutions to analytical needs in a wide range of fields, including the environment, effluent, agriculture, food, water, quality control, and education.

Application areas





Overseas Sales Division: DKK-TOA Corporation 29-10, 1-Chome, Takadanobaba, Shinjuku-ku, Tokyo 169-8648 Japan Tel : +81-3-3202-0225 Fax : +81-3-3202-5685 E-mail : intsales@dkktoa.com



Please read the operation manual carefully before using producuts.