

CI/S Analyzer Model TCL-2100V

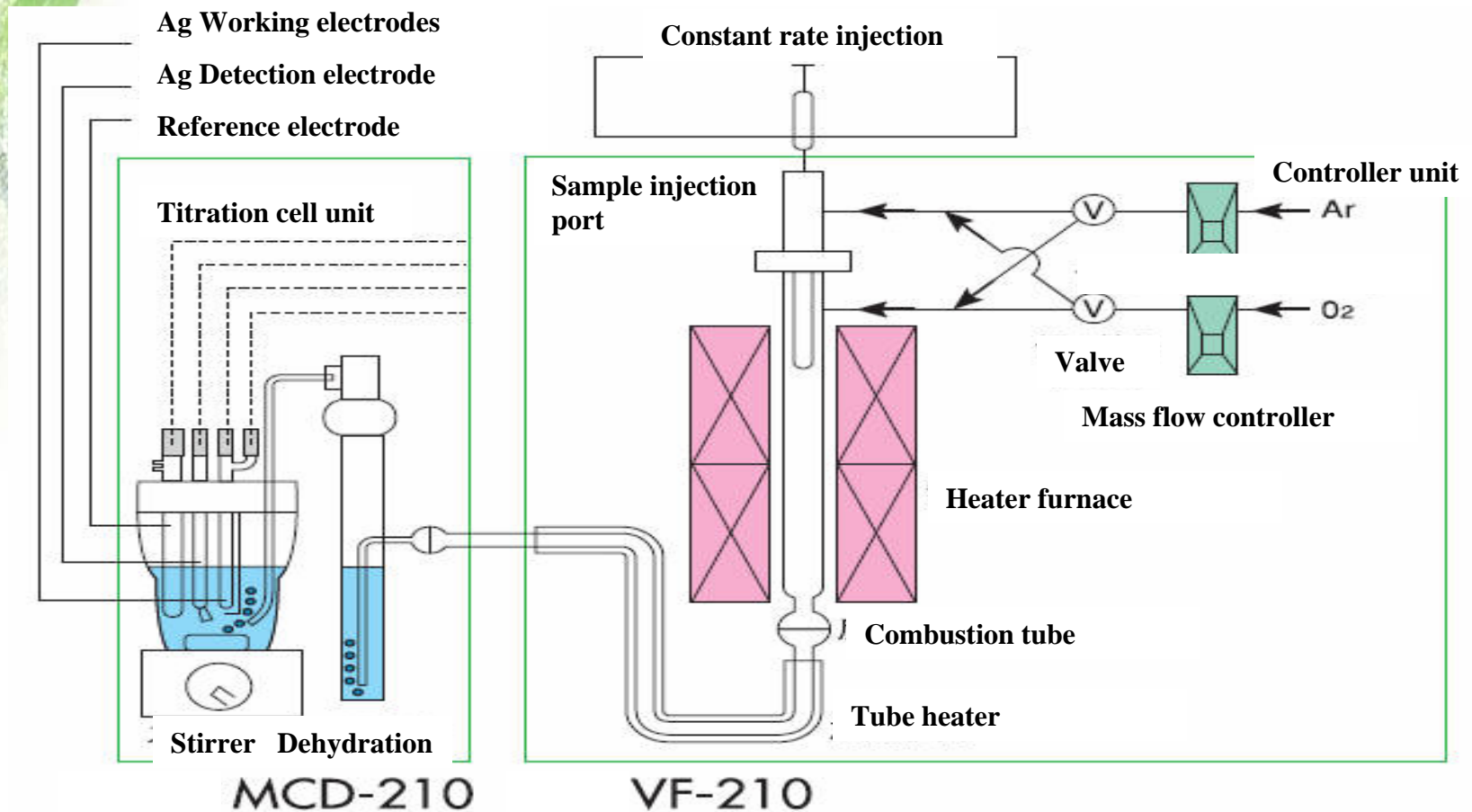




TCL Applications

- Fuel oil (Kerosene, Diesel & Gasoline)
- Bio-diesel
- Petrochemical materials (BTX, Naphtha)
- Waste/Recycled oil
- LPG & LNG

Flow schematic (Chlorine)



Measuring principle (Cl)

Oxidative combustion-Coulometry



Features

1. High sensitivity on Cl measurement

1) High sensitive Coulometer

1ppb sensitivity in the Titration Cell

2) New Ag/AgCl Reference Electrode (Same as 2100H)

Drift: Less than 100uV / 1hr

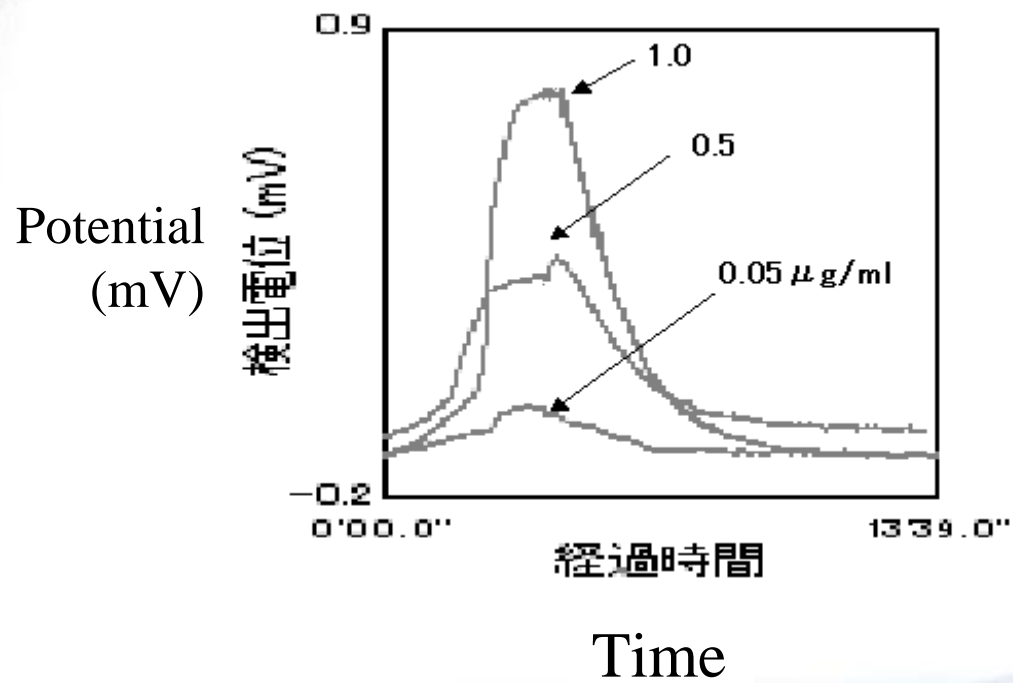
Lowest limit of measurement (Not the detection limit)

Cl: 0.05ppm

S: 0.10ppm

Features

- Lowest limit of measurement
(DNCB/Toluene, 200ul)



Features

4. Gas sample measurement

Cl/S measurement in LPG/LNG and Gaseous sample
by new Gas Injectors

TCl-2100V + GI-210

TCl-2100V + GI-220

Feature

6. Improvement on ASC-250L

- **3-way union for GI and 250L**
- **Viscous samples can be available.**

***** New parameters *****

a) Waiting time before air suction

b) Air suction speed



Features

7. PC software for “NSX-2100”

(TOX-2100H software → NSX-2100 software)

- Additional options: VF-210/GI-210/GI-220
- Automated gas sample analysis by GI-220
- Full-automation from “Heater on” to “Gas shut down”

by ASC-250L

Specifications

- **Injection volume:** Liquids up to 250ul
Gas up to 50ml (GI210, GI220)
- **Measuring items:** Total Chlorine, Total Sulfur
- **Measuring time:** 5 to 10min
- **Heater temperature:** up to 1,100degC
- **Measuring range:** S : 0.02 ~ 20ug
Cl : 0.01 ~ 50ug

Applications

Samples	Sample size (ul)	N	Results (ppm)	RSD(%)
Naphtha	200	5	0.08	9.8
Gasoline	200	5	0.53	5.3
Kerosene	200	5	0.09	5.0
Lubricant	90	5	1.35	3.2
Diesel 1	200	5	0.18	7.6
Diesel 2	200	5	0.05	13.5
Xylene	90	5	2.47	3.1

Gas Applications

Samples	Sample size (ml)	N	Results (mg/m ³)	RSD(%)
LPG-1	10	5	5.7	3.5
LPG-2	10	5	2.3	5.2
LNG	10	5	1.1	7.8
Ethylene	10	5	13.2	2.1