

SYD-0657 Nitrogen Chemiluminescence Analyzer



Summary

This instrument is designed and made as per industrial standard SH/T 0657—2007 Standard test method for trace nitrogen in liquid petroleum hydrocarbons by syringe/inlet oxidative combustion and chemiluminescence detection. It is widely used in petroleum, chemical, electricity, coal, food, environment, and other fields. Standards: SH/T 0657—1998, ASTM D4629—2010, SH/T 0704-2001, ASTM D5762 -2010, ASTM D6069-2001, GB/T 17674-1999.

I. Main technical features

1. High sensitivity

The TN-3000 determine the total nitrogen content by chemiluminescence improves the ability of anti-jamming, to avoid the complicated operation of titration pool and factors of instability which used Coulometry. So the sensitivity of the instrument is greatly improved. The key components of the system use imported components and make the machine has a reliable guarantee.

2. Easy to operate

Based on Windows (7, XP, Me, 98) Chinese user interface to make the operation more convenient and fast. You only need to click the mouse, and it can complete all of the parameter settings. The data collecting, processing, storage and printing controlled by a computer.

3. System configuration

Standard configuration: Printer + Computer + TN-3000 + Liquid injector

Other optional parts: Solid injector、 Gas injector

II. Main technical specifications

1. Sample types: Solid, gas and liquid

2. Determination method: Chemiluminescence (N)

3. Sample injection quantity: solid: 1-20mg; Liquid: 5-20 μ L; Gas: 1-5mL

4. Measuring range: 0.1 ~ 50000mg/L (High concentration should be diluted)

5. Measuring time: about 2 min

6. Measuring accuracy:

Concentration values (ppm)	Injection quantity (μ L)	RSD(%)
0.2	20	25
5	10	10
50	10	5
100	10	3
5000	10	3

7. Temperature range: Ambient to 1150 $^{\circ}$ C

8. Temperature control precision: \pm 1 $^{\circ}$ C

9. Air supply requirement: High purity argon: above 99.9% ,
High purity oxygen: above 99.9%

10. Power supply: AC220V \pm 22V, 50Hz \pm 0.5Hz, 1500 W

11. Dimension: Host: 305(W) \times 460(D) \times 440(H)mm

Temp controller: 550(W) \times 460(D) \times 440(H)mm

12. Net weight: Host: 20kg; Temp controller: 40kg