



## Microprocessor Based COD Total Phosphorus Analysis Colorimet

Model: **APEX-LJ838**

Standard: **HJ/T299-2007**

Introduce: **Instrument description:** COD tester is a kind of the crisis processor control, LED light source filter tester, used in laboratory or field of chemical...

### Detailed product information

#### Instrument description:

COD tester is a kind of the crisis processor control, LED light source filter tester, used in laboratory or field of chemical oxygen demand (COD) COD, total phosphorus (hereinafter referred to as TN) test process. The instrument can be directly v program internal curve, also allows users to store the self-built standard curve.

#### Instrument characteristics

Measurement results can be to light transmittance and absorption rate or the concentration of the appropriate measurement unit display

In the scheduled program parameter range automatic selection of the wavelength

Measurement results can be stored in the instrument inside, and v

Can easily build user own curve

Can choose matching preloaded reagent, which simplifies the determination of the limit users work

#### Principles and uses

Increase in the APEX-LJ838 chemical oxygen demand (COD) analyzer based on the total nitrogen (TN), total phosphorus (TP) measurement function. Preloaded reagents, which greatly limits the choice of supporting simplify the user's determination.

#### Instrument performance

Wavelength 420nm nitrogen (TN) Measuring range :0-25mg / L accuracy: 0.1 mg / L

Measuring range of the wavelength of 420nm nitrogen (TN) :5-150mg / L accuracy: 0.1 mg / L

Wavelength 610nm total phosphorus (TP) Measuring range :0.05-2mg / L accuracy: 0.01 mg / L

Wavelength 610nm total phosphorus (TP) measurement range :0.5-10mg / L accuracy: 0.1 mg / L

Wavelength 610nm total phosphorus (TP) Measuring range :1-20mg / L accuracy: 1 mg / L

#### Technical parameters

Wavelength range	420nm, 610nm
Wavelength accuracy	+3 nm
Wavelength selection	Automatic
Indication error:	+8%
Repeatability	≤ 3%
Stability	within 20 minutes, the absorbance value is less than 0.005A
Readout mode:	% T transmittance, absorbance, concentration
Light source lamp	light-emitting diode (LED)
Power supply	220V 50 HZ
Dimension	190*340*140mm
Net weight	2.1kg

#### Measurement of chemical oxygen demand (COD)

Organic matter is oxidized, so Cr6 becomes Cr3, Cr6 yellow, Cr3 significant green colorimetry that oxidant consumption

#### Measurement of total nitrogen (TN)

With chromotropic acid in water samples of the nitrogen is converted to nitrate under acidic conditions to produce a yellow compound, is detected by measuring the yellow light of the level of enhancement to the resulting yellow compound concentration

#### Total phosphorus (TP) measurement

Phosphorus in water samples into orthophosphate with molybdate under acidic conditions generated phosphomolybdic heteropoly acid re-ascorbic acid to produce a blue complex generated is detected by measuring the degree of blue light enhanced blue complex concentration

#### Nitrogen and oxygen measurement

About to increase the ammonia measurement measurement method and supporting reagents