



COD-60A

Simplified COD meter

Simple operation, errorless measurement between individuals, waste effluent reduced to 1/5 or less



Measuring result

RESULT		
Date	2008/07/25 16:15	Date
S.No.	001	Sample number
Method	ACID	Measuring method
Range	20.0 (ppm/L)	Measuring range
COD (y)	2.1 (ppm/L)	Measured value
COD (x)	7.1 (ppm/L)	Converted value
COD (y) = 0.0	+ 1.88x	Conversion formula

List printing

LIST		
Method	ACID	Measuring method
Oxi. Time	480 (Sec.)	Oxidation time
S.Temp.	58.0 (°C)	Oxidation start temperature
Blank	98.9 (Sec.)	Blank value
Zero (a)	0.0	Zero point comp. constant
Slope (b)	1.00	Slope comp. constant

Example of printing by COD-60A

COD measurement becomes an important management item for ISO14000 accredited enterprise or in every field. The COD-60A is simplified COD meter, which measures COD as the index of water quality pollution in natural or waste water from factory.

By adoption of unified measuring unit of heating and titration processing sections with unique control method, the sequence control from oxidation to titration is automated. With a little operation, highly reliable & simplified COD and errorless measurement between operators are available. Considering the environment, effluent resulting from measurement is reduced to 1/5 of conventional meter.



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Simplified COD meter, COD-60A

FEATURES

Remarkably improved operability

Oxidation and titration processing section combined, Control from oxidation/titration to data printing can be automatically done with a touch of key.

Less measuring error between operators

Oxidizing state (heating/cooling) and titration start are automatically processed by unique control method.

Reduced waste water quantity

Waste water quantity is reduced to 1/5, comparing to the one of our conventional model.

Reliable titration method

Coulombmetric titration adopted in titration method.

Electrolysis electrode self-cleaning for silver coating prevention and ORP titration at end-point detection are adopted.

Multi-range and direct reading of COD value

Undiluted value can be directly read out with the range set according to dilution ratio.

Dialog method (English or Japanese language selectable)

Sequence/titration curve during measurement displayed, with End buzzer

Sequence status and titration curve (time vs potential) are displayed in real time during measurement. Measurement progress can be confirmed at a glance.

Auto conversion function by JIS method linear regression formula

By previously inputting regression formula Obtained by correlation between manual analysis value and COD-60A's COD value converted by JIS method can be directly read.

Auto zero calibration

Blank zero calibration prior to actual measurement, indispensable to COD measurement, can be done with a touch of key.

Enriched maintenance/check function

Maintenance and inspection can be made by adoption of electrode cleaning mode and titration mode for main body checking.

Built-in printer/built-in clock/100points data storage

Measured result is printed at the time of measurement completion. Stored data can be displayed or printed later.

Statistics calculation function

Correlation formula and coefficient of correlation can be displayed and printed by inputting JIS method values and COD-60A's.

SPECIFICATIONS

Method	Acidified (or alkalified) potassium permanganate acid
Principle	Coulometric titration method (endpoint detection: ORP method)
Display	Graphical LCD display (English or Japanese language selectable) Sequence status, liquid temp, tit. curve displayed during titration. Error message: Faulty titration, blank error, etc
Range	Std.: 0 to 20/10/100/200/100/1000mg/L Option: 0 to 10 2000mg/L settable
Repeatability	± 2% F.S.
Sequence control	Auto measurement processing (acidified method only)
Clock function	built-in
Data storage	100points (time, sample No., result)
Printer	built-in
Calculation function	Regression formula conversion, statisticscal, (average value), auto input of blank value (manual input available)
Output	RS232C, external printer
Power consumption	approx.50VA (at heating)
Power source	AC line, 50/60Hz
Dimensions (approx.)	Main body 190w x 192h x 386d mm M'ment unit 150w x 295h x 262d mm
Weight	Main unit approx. 3kg M'ment unit approx. 2.3kg

STANDARD ACCESSORIES

Part name	Part No.	Q'ty
Measure unit w/rod & stopper	0KK00001	1
Electrode holder	0IB00011	1
Electrode 1	0LA00001	1
Electrode 2	0LA00002	1
Measuring cell	0DA00002	2
Cell stand	0IZ00003	1
Stirring bar	0SE00001	1
Reagent I, (100mL)	0BB00001	1
Reagent II, (25mL)	0BB00002	1
Refilling solution (25mL)	0BG00008	1
Micro pipette (0.5mL)	0SZ00013	1
Measuring pipette (5ml)	0SZ00014	1
Pipette (2ml)	0SZ00015	1
Syringe for refilling solution	0SZ00016	1
Printer paper		2
Power cord		2
Grounding wire		1
Fuse (2A, 3A)		1 ea.
Instruction manual	0PA0006	1