NIPPON
Advanced Technology In Color and Brightness.
DENSHOKU

COLOR METER FOR PETROLEUM PRODUCTS

OME 2000 CE

- **S**ample evaluation at high accuracy is possible thanks to its measuring capability equivalent to a color difference meter.
- **T**here is no need to adjust by a calibration plate since this instrument has been traced by the standard liquid conforming to the relevant specification.
- **S**ample evaluation is available under various industrial standards such as JIS, ISO and ASTM by making use of its highly accurate measuring capability.

ASTM

Saybolt

APHA

Gardner

An Industry-First!
Each unit capable of color measurement to ASTM, Saybolt, APHA(Pt-Co) and Gardner. Can also handle Test Tube Measurement.

JQA-QM7364 091-A

MGMT. SYS. RvA C 089

ISO9001:2000

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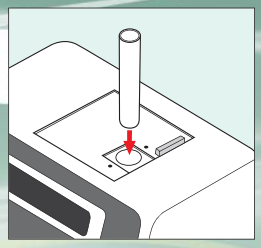

Standard

JIS K 0071, JIS K 2580
ISO 2211, ISO 6271
ISO 4630, ASTM D 6045,
ASTM D 1209, ASTM D 156,
ASTM D 1500, ASTM D 1544

Measuring range

ASTM : 0～8
Saybolt : 35～−16
APHA(Pt-Co) : 0～500
Gardner : No.1～No. 18

Traced to all Standard Samples specified in JIS K 2580 - 1993.

Features

1 High-Accuracy Measurement Capability
A high-speed 16-bit A/D converter (internally calibrated to 18-bit accuracy with built-in self-calibration function) and a low-drift, high-speed, high-accuracy amplifier are used to achieve measurement to 0.002% accuracy FSD (full-scale deflection)(Y=100.00). This ensures adequate discriminating performance not only for low-density but also for high-density samples.

2 Easy-to-See Screen Display
The use of a fluorescent display tube has both eliminated the problem of viewing difficulties from certain angles and provided clear visibility of the screen display even in a dark environment. The display also highlights important data in enlarged characters. Further, the display screen has a message display capability for interactive dialogue-style measuremeat.

3 Data Printout
The thermal printer with two stepping motors is built for long-life durability and extremely low printing and drive noise. Selective printout is a available to print only the selected necessary data items.

4 Averaging Function
Averaging frequency can be set up to 99 times.

5 Traceability
The colorimeter is traced to all standard samples specified in JIS K 2580 · 1993.

6 Sample Name Input Function
Sample names can be entered in upper and lower case alphanumeric characters. These are printed out on the printer and transmitted from the RS-232C interface at the same time.

7 Clock Functions
The time of measurement (YY/MM/DD/HH/MM) is printed out with the measument data. The measuremeat time is also sent from the RS-232C interface.

8 Memory Backup
The built-in lithium battery provides a backup for string the settings.

9 Computer Interface
RS-232C Specification

10 Test Tube Method (*Option*)
Test Tube method (option)
Flow Cell (option) can be installed.

Specification

Light Source for measurement	12V 20W Halogen Lamp
Light-Receiving Element	Fast-response silicon photocell
Tristimulus value filter	Colored glass filter X-Y-Z
Standard Light	Standard color C/2°specified in JIS
Electric Circuit	Built-in stabilized power source, amplifying circuit, and microcomputer.
Calibration	Automatic standard adjustment at the touch of a button.
Cells Used	Saybolt color 100mm-ASTM color 33mm (other cells possible)
Display	Fluorescent display : 256×64 dots Display area : 166.15×41.35mm Emitted colors : Blue-green
Displayed Data	Saybolt color, L*a*b*, ⊿L*, ⊿a*, ⊿b*, ⊿E*, ASTM color, X, Y, Z, DX, DY, DZ, ΣD, APHA (Pt-Co), Gardner Color and operating comment.
Printer	Printing method : Heat-sensitive serial dot printer Printing method : Bi-directional Total number of dots : 256×8 dots Printing speed : 1.1 sec / line Paper width : 80mm Total number of dots : 256×8 dots
Printed Data	Saybolt color, L*a*b*, ⊿L*, ⊿a*, ⊿b*, ⊿E*, ASTM color, X, Y, Z, DX, DY, DZ, ΣD, APHA (Pt-Co), Gardner Color
Sample Name Input Function	Sample name input in upper and lower case alphanumeric characters. Sample names are printed out on the printer and transmitted from the RS-232C interface at the same time.
External Output	RS-232C (Standard)-Transmitted data : Measurement time (YY/MM/DD/HH/MM), sample number, averaged measurement diaplay, ASTM Saybolt XYZ, DX, DY, DZ, ΣD, L*a*b*, ⊿L*, ⊿a*, ⊿b*, ⊿E*, APHA(Pt-Co), Gardner Color sample name of up to 10 characters can be keyed in.
Power Supply	AC Power Supply
Power Consumption	130VA
Dimensions	W 400mm×D 400mm×H 190mm
Weight	12.2kg

※ As part of our ongoing policy of product improvement, these specifications are subject to change without prior notice.

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