NIPPON
Advanced Technology In Color and Brightness.
DENSHOKU

DRAINAGE ANALYZER

NEW MODEL

NDR 2000

A revolutionary advance-a single analyzer unit measuring coloration and turbidity, excitation value and chromaticity coordinates, all simultaneously.

Coloration

Dilution is one method of determining the coloration of drainage water. The colored drainage water is diluted for visual comparison with a standard diluted water reference and the dilution factor when there is no difference from the reference is known as the coloration.

Integrating Sphere Method **Drainage Water Tester**

DRAINAGE ANALYZER

NEW MODEL

NDR 2000

Coloration - Turbidity - Chromaticity Coordinate Measuring Unit - Integrating Sphere Method

Industry-First, A single unit measuring coloration - turbidity - chromaticity coordinates(xy). (Patent Pending)

Drainage Water Color Meter

For Drainage Management - For Decoloration Management

- ●Coloration (Correlated to Dilution Method) . Light Absorption
- ●Turbidity (Factory sewage test method JIS K0101)
- ●Excitation Value Y, chromaticity coordinates xy (Factory sewage test method JIS K0102)

Determined simultaneously

Input/Output Signals:

Upper/Lower Limit Error Output Signal
Start of Test/Start of Calibration Input Signal
RS-232C output
Measurd Value Output Signal 4~20ma (Option)

Features

1. ***Simultaneous measurement of coloration, turbidity, excitation value, and chromaticity coordinates***
   Is capable measuring coloration (correlated to dilution method -- Patent Applied for), turbidity, excitation value, and chromaticity coordinates
2. ***Capable of high-accuracy measurement***
   High-speed 16-bit A/D converter (calibrated using built-in 18-bit self-calibration function) and low-drift, high-speed, high-accuracy amplifier to achieve precision measurement to 0.1% of full-scale (electrical precision).
3. ***Easy-to-view display***
   Fluorescent display eliminates all problems of visual reading difficulties. Display is also clearly visible in a dark environment. Important coloration and turbidity data are shown in a large display in double-width characters. Interactive style measurements are possible while messages are displayed on screen.
4. ***Data printout***
   The long-life thermal printer uses two stepping motors. Designed for extremely low-noise printing and drive. Printer has a selection function to print out only required data.
5. ***Averaging function***
   Can be set to average up to 99 readings.
6. ***Calibration curves***
   Coloration and turbidity calibration curves can be prepared as desired.
7. ***Sample cells available***
   Cells with a light path of up to 100mm can be used.
8. ***Sample name input function***
   Sample names can be entered using upper-case alphanumeric characters. Print-out with simultaneous transmission via RS-232C interface.
9. ***Clock function***
   Measuring time (YY/MM/DD/HH/MM) can be printed out with measurement data. Time is transmitted via RS-232C interface.
10. ***Memory backup***
    A lithium battery preserves settings.
11. ***Computer interface***
    To RS-232C specifications
12. ***External output***
    - ●Upper/lower limits can be set to any value from keyboard. External error signal output available.
    - ●Set-value transmission signal 4 ~ 20 mA (Option)

    External input
    Measurement (START) and calibration (S-ADJ) possible under external control.
13. ***Others***
    - ●Flow cell can be mounted, (Option)
    - ●80mm dia. integrating sphere available to enhance measurement accuracy.

Specifications

Light source : 12V 20W Halogen lamp

Light receiving Condition:
Fast-response silicon photocell

Electrical circuitry: Stabilized power supply, amplifier - microcomputer

Display : Fluorescent tube, 256 x 64 dots
Display size, 166.15 x 41.35mm
Color, Blue-green

Printed Date : Coloration, turbidity, X, Y, Z, xy, light absorption, etc.

Printer : Built-in thermal printer for operating comments, using serial dot-printing on thermal paper
Printing direction, Both
Total no. of dots, 256 x 8 dots
Print speed, 1.1 sec./line
Paper width, 80mm

Displayed Date: Coloration, turbidity, X, Y, Z, xy, light absorption, etc.

Sample name input function:
Sample name can be entered in upper-case alphanumeric characters. Sample name is printed with measurement data and simultaneously output via RS-232C interface.

External output : RS-232C (Standard)
Transmitted data; Date and time (YY/MM/DD/HH/MM) of measurement - Sample number - Average measurement indication - Coloration - Turbidity - xy, etc.
Sample names of up to 10 char. can be entered from keyboard.
- ●Upper measurement limit error output signal
- ●Lower measurement limit error output signal
- ●Measurement value transmission signal 4~20mA(Option)

Input signal : External measurement START signal
External calibration (S-ADJ) signal

Power supply : 100V AC, 50/60Hz

Power rating : 2A

Size (WxDxH) : 400 x 400 x 190 (mm)

Weight : 12.5kg

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

XEBEX

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