



# DH-35A

## Portable Dissolved Hydrogen Meter

Simple operation, Quick response, and  
Atmospheric calibration possible

DH-35A measures trace amounts of dissolved hydrogen contained in the water supply system in thermal power plants, nuclear power plants, and corrosion-testing plants for metallic materials with high response and high accuracy.

In addition, it demonstrates its outstanding performance in the research of electrolysis forming water and in water quality management.



# DH-35A Portable Dissolved Hydrogen Meter

## Features

### ●Simple Operation, Quick response

The use of the membrane type polarographic electrode technique allows the determination of dissolved hydrogen in solutions easily.

In addition, 100% to 0% H<sub>2</sub> gas has been used for high response measurement with 90% response in 30 seconds or less.

### ●High Sensitivity

High sensitivity measurement in the order of  $\mu\text{g/L}$  is possible.

### ●Atmospheric Calibration

Due to the adoption of the atmospheric calibration method, there is no need to use hydrogen standard gas that poses a risk of explosion.

### ●Drip-proof Construction

The main unit has a drip-proof construction, and it can be exposed to water.

### ●2 Power Supply Operation

In addition to AC power supply, dry cell batteries can also be used at any measurement point.

### ●Flow Cell

The flow cell is small and easy to operate and maintain. Measurement can be made without being affected by outside air.

### ●Analog Output

Continuous recording of the amount of dissolved hydrogen is possible by connecting the recorder.  
(Output cable is supplied as standard.)

## Specifications

|                                |   |
|--------------------------------|---|
| Measurement method             | Membrane type polarographic method  |
| Display unit                   | LCD display unit  |
| Measurement range              | Oppb( $\mu\text{g/L}$ ) to 10ppm(mg/L)<br>Note: Measurement exceeding the saturated dissolved hydrogen content is not possible.   |
| Display Range                  | 0 to 19.99ppm<br>0 to 1.999ppm<br>0 to 199.9ppb   |
| Range switch                   | Manual  |
| Repeatability (main body)      | $\pm 5\%$ full scale  |
| Responsiveness                 | 90% response in 30 seconds or less<br>(with 100% H <sub>2</sub> gas to 0% H <sub>2</sub> gas)   |
| Temperature Compensation Range | Automatic temperature compensation:<br>5 to 40°C  |
| Calibration                    | Manual calibration by volume<br>ZERO: Electric ZERO calibration, calibration with 100% N <sub>2</sub> gases<br>SPAN: Atmospheric calibration, Hydrogen standard gas calibration |
| Analog Output                  | 0 to 1 V (each range)   |
| Ambient conditions             | 0 to 45°C    0 to 85% RH  |
| Power supply                   | Six C size alkaline batteries or AC100V<br>(Dedicated AC adapter)   |
| Dimensions/ Weight             | Approximately 250 (wide) × 160 (high) × 95 (deep) mm<br>Approximately 2.0kg   |

## Standard Accessories

|   |                       |
|---|-----------------------|
| Dissolved hydrogen electrode HE-532102      | Output cable DO-1L    |
| Flow cell ASSY 6832210K                     | Carrying case 137C024 |
| C size alkaline batteries (for testing) (6) | Manual                |
| AC adapter YD-12                            |                       |

## Dissolved Hydrogen Electrode

| Model name                      | HE-532102   | HE-532202   |
|---------------------------------|---|-------------|
| Wetted part material            | FEP, PP   | FEP, SUS316 |
| Housing material                | PP  | SUS316      |
| Measurement solution conditions | Pressure 1MPa(10Kgf/cm <sup>2</sup> ) gauge pressure or lower<br>Flow rate 0.2 to 2L/min<br>Temperature 0 to 50°C |             |

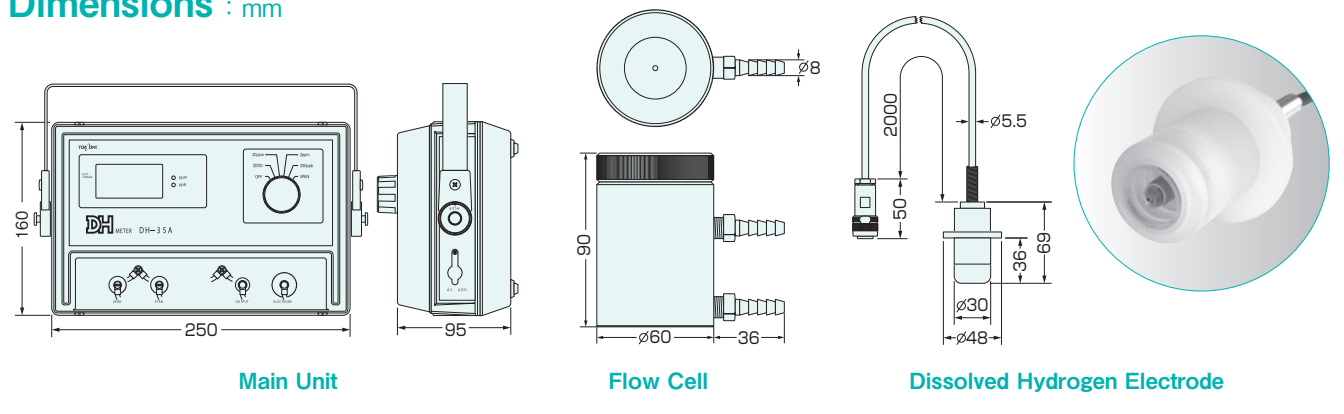
## Option

Electrode Regenerate Device DHE-R2S

## Sold Separately

Electrolyte R-8 50mL (P/N R-8)  
Membrane T-25 10 filled(P/N 6921480K)

## Dimensions : mm



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CAUTION

Please read the operation manual carefully before using products.

Specifications and prices are subject to change without notice.

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