
**User's
Manual**

Model PH8HS, PH8HSF Submersion Type Holders

IM 12B07M01-01E

vigilantplant.[®]

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◆ INTRODUCTION

This manual covers the PH8HS, PH8HSF Submersion Type Holders. Other related items are described in the following manuals:

| Model | Title | IM No. |
|----------------|--|-----------------|
| PH8ERP | KCl Refillable type pH Sensor | IM 12B7K1-02E |
| PH8EFP | KCl Filling type pH Sensor | IM 12B7J1-01E |
| PH8EHP | pH Sensor for Pure Water | IM 12B7J2-01E |
| HA405 | Solid Electrolyte (xerolyt) pH Sensor | IM 12B7E1-01E |
| HA406 | Solid Electrolyte (xerolyt) pH Sensor with Temperature Element | IM 12B07E02-01E |
| DPAS405 | pH Sensor for Small Culture Tanks | IM 12B7G1-01E |
| DPA405 | pH Sensor for Chemical Processes | IM 12B7H1-01E |
| DPA406 | pH Sensor for Chemical Process with Temperature Element | IM 12B07H02-01E |
| HF405 | Hydrofluoric Acid-resistant pH Sensor | IM 12B07L01-01E |
| FLXA21 | 2-Wire Liquid Analyzer | IM 12A01A02-01E |
| PH201G*B | Distributor | IM 19B1E4-02E |
| PH450G | pH/ORP Converter | IM 12B07C05-01E |
| PH400G | pH Converter | IM 12B7C1-02E |
| PH202G, PH202S | pH/ORP Transmitter | IM 12B07D02-01E |
| PH100 | Panel Mount pH Converter | IM 12B11A01-01E |
| PUS400G | Ultrasonic Oscillator | IM 19C1B3-01E |
| PH8USF, PH8AL | Ultrasonic Oscillator (Explosionproof Type), Alarm Box | IM 12B5U2-E |
| PH8PU1 | Cleaning Pump/Tank | IM 19C1E1-01E |
| WTB10-PH□ | Terminal Box | IM 19D01B01-01E |
| PH8TBG | Terminal Box | IM 12B07W01-01E |
| OR8EFG | KCl Filling type OPR Sensor | IM 12C07J01-01E |
| OR8ERG | KCl Refillable type OPR Sensor | IM 12C04K01-01E |
| OR8TBG | Terminal Box | IM 12C04W01-01E |

◆ For the safe use of this equipment

■ Safety, Protection, and Modification of the Product

- In order to protect the system controlled by the product and the product itself and ensure safe operation, observe the safety precautions described in this user's manual. We assume no liability for safety if users fail to observe these instructions when operating the product.
- If this instrument is used in a manner not specified in this user's manual, the protection provided by this instrument may be impaired.
- Be sure to use the spare parts approved by Yokogawa Electric Corporation (hereafter simply referred to as YOKOGAWA) when replacing parts or consumables.
- Modification of the product is strictly prohibited.
- The following symbols are used in the product and user's manual to indicate that there are precautions for safety:

■ Notes on Handling User's Manuals

- Please hand over the user's manuals to your end users so that they can keep the user's manuals on hand for convenient reference.
- Please read the information thoroughly before using the product.
- The purpose of these user's manuals is not to warrant that the product is well suited to any particular purpose but rather to describe the functional details of the product.
- No part of the user's manuals may be transferred or reproduced without prior written consent from YOKOGAWA.
- YOKOGAWA reserves the right to make improvements in the user's manuals and product at any time, without notice or obligation.
- If you have any questions, or you find mistakes or omissions in the user's manuals, please contact our sales representative or your local distributor.

■ Warning and Disclaimer

The product is provided on an "as is" basis. YOKOGAWA shall have neither liability nor responsibility to any person or entity with respect to any direct or indirect loss or damage arising from using the product or any defect of the product that YOKOGAWA can not predict in advance.

■ Symbol Marks

Throughout this user's manual, you will find several different types of symbols are used to identify different sections of text. This section describes these icons.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



IMPORTANT

Indicates that operating the hardware or software in this manner may damage it or lead to system failure.



NOTE

Draws attention to information essential for understanding the operation and features.



Tip

This symbol gives information that complements the current topic.



SEE ALSO

This symbol identifies a source to be referred to.

◆ After-sales Warranty

- Do not modify the product.

- During the warranty period, for repair under warranty consult the local sales representative or service office. Yokogawa will replace or repair any damaged parts. Before consulting for repair under warranty, provide us with the model name and serial number and a description of the problem. Any diagrams or data explaining the problem would also be appreciated.
 - If we replace the product with a new one, we won't provide you with a repair report.
 - Yokogawa warrants the product for the period stated in the pre-purchase quotation. Yokogawa shall conduct defined warranty service based on its standard. When the customer site is located outside of the service area, a fee for dispatching the maintenance engineer will be charged to the customer.

- In the following cases, customer will be charged repair fee regardless of warranty period.
 - Failure of components which are out of scope of warranty stated in instruction manual.
 - Failure caused by usage of software, hardware or auxiliary equipment, which Yokogawa Electric did not supply.
 - Failure due to improper or insufficient maintenance by user.
 - Failure due to modification, misuse or outside-of-specifications operation which Yokogawa does not authorize.
 - Failure due to power supply (voltage, frequency) being outside specifications or abnormal.
 - Failure caused by any usage out of scope of recommended usage.
 - Any damage from fire, earthquake, storms and floods, lightning, disturbances, riots, warfare, radiation and other natural changes.

- Yokogawa does not warrant conformance with the specific application at the user site. Yokogawa will not bear direct/indirect responsibility for damage due to a specific application.

- Yokogawa Electric will not bear responsibility when the user configures the product into systems or resells the product.

- Maintenance service and supplying repair parts will be covered for five years after the production ends. For repair for this product, please contact the nearest sales office described in this instruction manual.

Model PH8HS, PH8HSF Submersion Type Holders

IM 12B07M01-01E 3rd Edition

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