

About This Manual

- This manual should be read by the end user.
- This manual is intended for the following personnel;
Engineers responsible for installation, wiring, and maintenance of the equipment.
Personnel responsible for normal dairy operation of the equipment.
- Please read though this user's manual carefully before using the product.
- This manual explains the functions of the product. YOKOGAWA does not guarantee that the product will suit a particular purpose of the user.
- The contents of this manual are subject to change without notice as a result of continuing improvements to the instrument's performance and functions.
- Every effort has been made to ensure accuracy in the preparation of this manual. Should any errors or omissions come to your attention, however, please inform YOKOGAWA Electric's sales office or sales representative.
- Under no circumstances may the contents of this manual, in part or in whole, be transcribed or copied without our permission.

Safety Precautions

The following contents are for the suffix codes "-□0□", "-□1□" and "-□2□"

This instrument is a product of Installation Category II of IEC/EN61010-1 Safety Standards and Class A (use in commercial and industrial areas) of EN61326-1 (EMC Standards) (use a ferrite core and an arrester to comply with the standards).



CAUTION

This instrument is a class A product (use in commercial and industrial areas). In a domestic environment this product may cause radio interference in which case the user needs to take adequate measures.

The instrument is a product rated Measurement Category O (other).

* Measurement Category O (other)

This category applies to electric equipment that measures a circuit connected to a low-voltage facility and receives power from stationary equipment such as electric switchboards.

To use the instrument properly and safely, observe the safety precautions described in this user's manual when operating it. Use of the instrument in a manner not prescribed herein may compromise protection features inherent in the device. We assume no liability for or warranty on a fault caused by users' failure to observe these instructions.

This instrument is designed to be used within the scope of Measurement Category O (other) and is dedicated for indoor use.

This instrument is an FM Non-incendive or CSA Non-incendive Standard certified product. *: *To be approved.*

FM Standards FM3611

Locations: Class I, Division 2, Groups A, B, C, and D
Class I, Zone 2, Groups II C

Temperature code: T4

CSA nonincendive C22.2 No. 213-M1987

Locations: Class I, Division 2, Groups A, B, C, and D

Temperature Code T4

■ Safety, Protection, and Modification of the Product

The following symbols are used in the product and user's manuals to indicate safety precautions:



"Handle with Care" (This symbol is attached to the part(s) of the product to indicate that the user's manual should be referred to in order to protect the operator and the instrument from harm.)



Protective grounding terminal



Functional grounding terminal (Do not use this terminal as a protective grounding terminal.)



Alternating current



Direct current

- In order to protect the system controlled by this product and the product itself, and to ensure safe operation, observe the safety precautions described in this user's manual. Use of the instrument in a manner not prescribed herein may compromise the product's functions and the protection features inherent in the device. We assume no liability for safety, or responsibility for the product's quality, performance or functionality should users fail to observe these instructions when operating the product.
- Installation of protection and/or safety circuits with respect to a lightning protector; protective equipment for the system controlled by the product and the product itself; foolproof or failsafe design of a process or line using the system controlled by the product or the product itself; and/or the design and installation of other protective and safety circuits are to be appropriately implemented as the customer deems necessary.
- Be sure to use the spare parts approved by YOKOGAWA when replacing parts or consumables.
- This product is not designed or manufactured to be used in critical applications that directly affect or threaten human lives. Such applications include nuclear power equipment, devices using radioactivity, railway facilities, aviation equipment, air navigation facilities, aviation facilities, and medical equipment. If so used, it is the user's responsibility to include in the system additional equipment and devices that ensure personnel safety.
- Modification of the product is strictly prohibited.



WARNING

- **Power Supply**
Ensure that the instrument's supply voltage matches the voltage of the power supply before turning ON the power.
- **Protective Grounding**
To prevent electric shock, always confirm that protective grounding is connected before turning ON the instrument's power supply.
- **Necessity of Protective Grounding**
Do not cut off the internal or external protective grounding wire or disconnect the wiring of the protective grounding terminal. Doing so renders the protective functions of the instrument invalid and poses a potential shock hazard.
- **Defects in Protective Functions**
If protective functions such as grounding are suspected to be defective, do not operate the instrument. Ensure that all protective functions are in working order before operating the instrument.
- **Do Not Use in an Explosive Atmosphere**
Do not operate the instrument in locations with combustible or explosive gases or steam. Operation in such environments constitutes an extreme safety hazard. Use of the instrument in environments with high concentrations of corrosive gas (H₂S, SO_x, etc.) for extended periods of time may cause a failure.
- **Do Not Remove Internal Unit**
The internal unit should not be removed by anyone other than YOKOGAWA's service personnel. There are dangerous high voltage parts inside.
- **External Connection**
Ensure that protective grounding is connected before connecting the instrument to the device under measurement or to an external control circuit.
- **Damage to the Protective Construction**
Operation of the instrument in a manner not specified in this user's manual may damage its protective construction.

■ Warning and Disclaimer

- YOKOGAWA makes no warranties regarding the product except those stated in the WARRANTY that is provided separately.
- The product is provided on an "as is" basis. YOKOGAWA assumes no liability to any person or entity for any loss or damage, direct or indirect, arising from the use of the product or from any unpredictable defect of the product.

Handling Precautions for the Main Unit

- The instrument comprises many plastic components. To clean it, wipe it with a soft, dry cloth. Do not use organic solvents such as benzene or thinner for cleaning, as discoloration or deformation may result.
- Keep electrically charged objects away from the signal terminals. Not doing so may cause the instrument to fail.
- Do not apply volatile chemicals to the display area, operation keys, etc. Do not leave the instrument in contact with rubber or PVC products for extended periods. Doing so may result in failure.
- If the equipment emits smoke or abnormal smells or makes unusual noises, turn OFF the instrument's power switch immediately and unplug the device. In such an event, contact your sales representative.

Waste Electrical and Electronic Equipment (WEEE), (This directive is only valid in the EU)

Foreword

This is an explanation of how to dispose of this product based on Waste Electrical and Electronic Equipment (WEEE). This directive is only valid in the EU.

Marking

This product complies with the WEEE Directive marking requirement.

This marking indicates that you must not discard this electrical/electronic product in domestic household waste.



Product Category

With reference to the equipment types in the WEEE directive Annex 1, this product is classified as a "Monitoring and Control instrumentation" product.

Do not dispose in domestic household waste.

When disposing products in the EU, contact your local Yokogawa Europe B. V. office.

Authorised Representative in the EEA

Yokogawa Europe BV. (Address: Euroweg 2 , 3825 HD Amersfoort, The Netherlands) is the Authorised Representative of Yokogawa Electric Corporation for this Product in the EEA.

Downloadable Electronic Manuals

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Manual Name	Doc. Number
YS1500/YS1700 Operation Guide	IM 01B08B02-01EN
YS1500/YS1700 User's Manual	IM 01B08B02-02EN
YS1310 Operation Guide	IM 01B08D02-01EN
YS1310 User's Manual	IM 01B08D02-02EN
YS1350/YS1360 Operation Guide	IM 01B08E02-01EN
YS1350/YS1360 User's Manual	IM 01B08E02-02EN
YS1000 Series Communication Interface User's Manual	IM 01B08J02-01EN
YSS1000 Setting Software/YS1700 Programmable Function User's Manual	IM 01B08K02-02EN
YS1000 Series Replacement Manual	IM 01B08H02-01EN
Precautions on the Use of the YS1000 Series (This manual is always delivered even if 'without manuals' was selected.)	IM 01B08B02-91EN

General Specification Name	Doc. Number
YS1700 Programmable Indicating Controller	GS 01B08B02-01EN
YS1500 Indicating Controller	GS 01B08C02-01EN
YS1310 Indicator with Alarm	GS 01B08D02-01EN
YS1350 Manual Setter for SV Setting/YS1360 Manual Setter for MV Setting	GS 01B08E02-01EN
YSS1000 Setting Software	GS 01B08K02-01EN

* The last two characters of the manual number and general specification number indicate the language in which the manual is written.



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