

## Safety Precautions

- This instrument conforms to IEC safety class I (provided with terminal for protective grounding), Installation Category II, and EN61326-1 (EMC standard), Measurement Category II (CAT II)\*.
    - \* Measurement category II (CAT II) applies to measuring circuits connected to low voltage installation, and electrical instruments supplied with power from fixed equipment such as electric switchboards.
  - This instrument is an EN61326-1 (EMC standard) class A instrument (for use in commercial, industrial, or business environments). The influence rate (judgment condition A) in the immunity test environment is within  $\pm 15\%$  of the range or  $\pm 10$  mV.
  - The general safety precautions described here must be observed during all phases of operation. If the FX is used in a manner not described in this manual, the FX safety features may be impaired. Yokogawa Electric Corporation assumes no liability for the customer's failure to comply with these requirements.
  - The FX is designed for indoor use.
- **About User's Manuals**
    - Please pass user's manuals to the end user. We also ask you to store manuals in a safe place.
    - Read user's manuals thoroughly and have a clear understanding of the product before operation.
    - User's manuals explain the functions of the product. It does not guarantee that the product will suit a particular purpose of the user.
  - **Precautions Related to the Protection, Safety, and Alteration of the Product**

The following safety symbols are used on the product and in this manual.



"Handle with care." To avoid injury and damage to the instrument, the operator must refer to the explanation in the manual.



Protective ground terminal



Alternating current



Direct current

- For the protection and safe use of the product and the system in which this product is incorporated, be sure to follow the instructions and precautions on safety that are stated in this manual whenever you handle the product. Take special note that if you handle the product in a manner that violates these instructions, the protection functionality of the product may be damaged or impaired. In such cases, YOKOGAWA does not guarantee the quality, performance, function, and safety of product.
- When installing protection and/or safety circuits such as lightning protection devices and equipment for the product and control system or designing or installing separate protection and/or safety circuits for fool-proof design and fail-safe design of the processes and lines that use the product and the control system, the user should implement these using additional devices and equipment.
- If you are replacing parts or consumable items of the product, make sure to use parts specified by YOKOGAWA.
- 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.
- Do not modify this product.



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**WARNING**

- **Use the Correct Power Supply**  
Ensure that the source voltage matches the voltage of the power supply before turning ON the power.
  - **Connect the Protective Grounding Terminal**  
Make sure to connect the protective grounding to prevent electric shock before turning ON the power.
  - **Do Not Impair the Protective Grounding**  
Never cut off the internal or external protective grounding wire or disconnect the wiring of the protective grounding terminal. Doing so invalidates the protective functions of the instrument and poses a potential shock hazard.
  - **Do Not Operate with Defective Protective Grounding**  
Do not operate the instrument if the protective grounding might be defective. Also, make sure to check them before operation.
  - **Do Not Operate in an Explosive Atmosphere**  
Do not operate the instrument in the presence of flammable liquids or vapors. Operation in such an environment constitutes a safety hazard.  
Prolonged use in a highly dense corrosive gas (H<sub>2</sub>S, SO<sub>x</sub>, etc.) will cause a malfunction.
  - **Do Not Remove Covers**  
The cover should be removed by YOKOGAWA's qualified personnel only. Opening the cover is dangerous, because some areas inside the instrument have high voltages.
  - **Ground the Instrument before Making External Connections**  
Connect the protective grounding before connecting to the item under measurement or control unit.
  - **Damage to the Protection**  
Operating the instrument in a manner not described in this manual may damage the instrument's protection.
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**CAUTION**

This instrument is a Class A product. Operation of this instrument in a residential area may cause radio interference, in which case the user is required to take appropriate measures to correct the interference.

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### Exemption from Responsibility

- YOKOGAWA makes no warranties regarding the product except those stated in the WARRANTY that is provided separately.
- YOKOGAWA assumes no liability to any party for any loss or damage, direct or indirect, caused by the user or any unpredictable defect of the product.

## Protection of Environment

### • Control of Pollution Caused by the Product

#### 产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDB)
显示器 (LCD)	×	×	×	○	○	○
印刷电路板	×	×	×	○	○	○
内部接线的材料	×	×	×	○	○	○
外壳/机箱	塑料	×	×	○	○	○
	金属	×	×	○	○	○
电源	×	×	×	○	○	○
操作键	×	×	×	○	○	○
标准附件/ 可选附件	用于端子的 螺丝	×	×	×	○	○
	安装支架	×	×	×	○	○
	CF卡	×	×	×	○	○
	SD卡	×	×	×	○	○
	分流电阻	×	×	×	○	○

○:表示该部件的所有均质材料中的有毒有害物质或元素的含量均低于GB/T 26752标准所规定的限量要求。  
 ×:表示该部件中至少有一种均质材料中的有毒有害物质或元素的含量超过GB/T 26752标准所规定的限量要求。  
 本产品的部分部件包含RoHS指令中的限用物质, 但是其使用方法不受该指令限制。  
 Some parts of this product include the restricted substances of RoHS Directive, but their applications are under the exemption of the directive.

### 环保使用期限



该标志为环境保护使用期限, 根据SJ/T11364, 适用于在中国(台湾、香港、澳门除外)销售的电子电气产品。只要您遵守该产品相关的安全及使用注意事项, 在自制造日起算的年限内, 则不会因产品中有害物质泄漏或突发变异, 而造成对环境的污染或对人体及财产产生恶劣影响

注) 该年数为“环保使用期限”, 并非产品的质量保质期。零件更换的推荐周期, 请参照使用说明书

### • How to Dispose the Batteries



This is an explanation about the new EU Battery Directive (DIRECTIVE 2006/66/EC). This directive is only valid in the EU.  
 Batteries are included in this product. Batteries incorporated into this product cannot be removed by yourself. Dispose them together with this product. When you dispose this product in the EU, contact your local Yokogawa Europe B.V.office. Do not dispose them as domestic household waste.  
 Battery type: Lithium battery  
 Notice: The symbol (see above) means they shall be sorted out and collected as ordained in ANNEX II in DIRECTIVE 2006/66/EC.

### Authorised Representative in the EEA

The Authorised Representative for this product in the EEA is:

Yokogawa Europe B.V.

Euroweg 2, 3825 HD Amersfoort, The Netherlands

## Electronic Manuals

You can download the latest manuals from the following website.

<http://www.yokogawa.com/ns/fx1000/im/>

Manual Title	Manual No.*
Model FX1002/FX1004/FX1006/FX1008/FX1010/FX1012 FX1000 Paperless Recorder User's Manual	IM 04L21B01-01EN
Model FX1002/FX1004/FX1006/FX1008/FX1010/FX1012 FX1000 Paperless Recorder First Step Guide	IM 04L21B01-02EN
Model FX1002/FX1004/FX1006/FX1008/FX1010/FX1012 FX1000 Paperless Recorder Safety Precautions and Installation Guide Installing the FXA120 DAQSTANDARD	IM 04L21B01-03EN
FX1000 Mode Transition Diagram Setting Mode / Basic Setting Mode Maps	
Model FX1002/FX1004/FX1006/FX1008/FX1010/FX1012 FX1000 Paperless Recorder Communication Interface (/C2, /C3, /C7) User's Manual	IM 04L21B01-17EN
FXA120 DAQSTANDARD for FX1000 Data Viewer	IM 04L21B01-63EN
FXA120 DAQSTANDARD for FX1000 Hardware Configurator	IM 04L21B01-64EN
Model FX1002/FX1004/FX1006/FX1008/FX1010/FX1012 FX1000 Paperless Recorder Usage Precautions	IM 04L21B01-91EN

## General Specifications

For specifications, refer to General Specifications.

General Specifications Title	General Specifications No.*
Model FX1002/FX1004/FX1006/FX1008/FX1010/FX1012 FX1000 Paperless Recorder	GS 04L21B01-02EN

\* The last two characters of the manual number and the general specifications number indicate the language in which the manuals or general specifications are written.

