User's
Manual

YFGW520
Field Wireless Access Point

Read Me First

IM 01W02E02-11EN

This document specifies the important information to use this product correctly and safely and the Open Source Software License Terms and Software License Agreement for Field Wireless Access Point Setting Tool (hereafter simply referred to as Setup Tool).

Before use the product, be sure to read this document first.

The configuration of the field wireless system is described in User's Manual of the YFGW410 Field Wireless Management Station (IM 01W02D01-01EN). Read that document first.

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YOKOGAWA
Yokogawa Electric Corporation

IM 01W02E02-11EN
6th Edition

Introduction

This manual (IM 01W02E02-11EN) describes the safety precautions, explosion protected type specifications and the Open Source Software License Terms and Software License Agreement for the Setup Tool.

The documents for the YFGW520 (including this document) are listed below. Read them along with this manual.

Document No.	Document name	Description
IM 01W02E02-01EN	YFGW520 Field Wireless Access Point	This manual is the User's Manual for YFGW520. It describes installation, wiring, operation, maintenance and specification of the YFGW520.
IM 01W02E02-11EN	YFGW520 Field Wireless Access Point Read Me First	This manual. The printed version of this manual is attached to YFGW520 hardware.
GS 01W02E02-01EN	YFGW520 Field Wireless Access Point	Product specification including detailed model and suffix code, optional specifications and accessory of the YFGW520.

These manuals can be downloaded from the website of Yokogawa.

Website address:
https://www.yokogawa.com/solutions/products-and-services/measurement/field-instruments-products/field-wireless/

If you cannot find it on our website, please contact YOKOGAWA office.

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Regarding This User's Manual

- This manual should be provided to the end user. Please recommend end users to keep this manual at hand and refer to it as needed.
- This manual and the identification tag attached on packing box are essential parts of the product; keep them in a safe place for future reference.
- Before use, read this manual thoroughly to comprehend its contents.
- The purpose of the User's Manual is to describe details of functions provided in this product, not to warrant the product's suitability to the specific purposes of customers.
- No part of this manual may be reproduced in any form without Yokogawa's written permission.
- The contents of this manual may be changed without prior notice.
- All reasonable effort has been made to ensure the accuracy of the contents of this manual. However, if any errors or omissions are found, please inform any of sales offices listed on the back cover or your local distributor.
- The specifications covered by this manual are limited to those for the standard type under the specified model number break-down and do not cover custom-made instruments. When products whose suffix code or optional codes contain code "Z" and an exclusive document is attached, please read it along with this manual.
- Please note that this User's Manual may not be revised for any specification changes, construction changes or operating part changes that are not considered to affect function or performance.

Safety Precautions

Safety, Protection, and Modification of the Product

- **In order to protect the operator, product, and system controlled by the product, observe the safety precautions described in this User's Manual. If users handle contrary to these instructions, we can not guarantee the safety.**
- **If this instrument is used in a manner not specified in this User's Manual, the protection provided by this instrument may be impaired.**
- **Modification of the product is strictly prohibited.**
- **If customers attempt to repair or modify explosion protected type products and fail to return them to their original state, the explosion protected structure of this product will be lost, resulting in a hazardous state. All repairs and modifications of the product must be consulted with Yokogawa.**
- **If any protection or safety circuit is required for the system controlled by the product or for the product itself, prepares it separately.**
- **Be sure to use the spare parts approved by Yokogawa Electric Corporation (hereafter simply referred to as Yokogawa) when replacing parts or consumables.**
- **The following symbols are used in the product and User's Manual to indicate that there are precautions for safety:**



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 or physical damage. 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

Indicates additional information.

SEE ALSO

Indicates a source to refer to

⏚ Indicates a protective grounding terminal. Before using the product, ground the terminal.

⏚ Indicates a functional grounding terminal. Before using the product, ground the terminal.

⎓ Indicates a DC supply

Safe Use of This Product

This product is designed to be used by a person with specialized knowledge. For the safety of the operator and to protect the instrument and the system, please be sure to follow this manual's safety instructions when handling this instrument. If these instructions are not heeded, the protection provided by this instrument may be impaired. In this case, Yokogawa cannot guarantee that the instrument can be safely operated. Please pay special attention to the following points:

(a) Installation

- This instrument may only be installed by an engineer or technician who has an expert knowledge of this device. Operators are not allowed to carry out installation unless they meet this condition.
- All installation shall comply with local installation requirements and the local electrical code.

(b) Wiring

- The instrument must be installed by an engineer or technician who has an expert knowledge of this instrument. Operators are not permitted to carry out wiring unless they meet this condition.

(c) Operation

- Wait 1 min. after the power is turned off, before opening the covers.

(d) Maintenance

- Please carry out only the maintenance procedures described in this manual. If you require further assistance, please contact the nearest Yokogawa office.
- Care should be taken to prevent the build up of dust or other materials on the display glass and the name plate. To clean these surfaces, use a soft, dry cloth.

(e) Explosion Protected Type Instrument

- Users of explosion protected instruments should refer first to “Explosion Protected Type Specifications” section of this manual.
- The use of this instrument is restricted to those who have received appropriate training in the device.
- Take care not to create sparks when accessing the instrument or peripheral devices in a hazardous location.
- Repair or modification to this instrument by customer will cause malfunction of explosion protect function and hazardous situation. If you need to repair or modification, please contact the nearest Yokogawa office.

(f) Modification

- Yokogawa will not be liable for malfunctions or damage resulting from any modificationmade to this instrument by the customer.

(g) Product Disposal

- The instrument should be disposed of in accordance with local and national legislation/ regulations.

Warranty

- **The warranty terms of this instrument are described in the quotation. We will make any repairs that may become necessary during the guaranteed term free of charge.**
- **Please contact our sales office or your local distributor if this instrument requires repair.**
- **If the instrument is faulty, contact us with complete details about the problem and the length of time it has been faulty, and state the model and serial number. We would appreciate the inclusion of drawings or additional information.**
- **The results of our examination will determine whether the product will be repaired free of charge or on an at-cost basis.**

The guarantee will not apply in the following cases:

- **Damage due to negligence or insufficient maintenance on the part of the customer.**
- **Problems or damage resulting from handling, operation or storage that violates the intended use and specifications.**
- **Problems that result from using or performing maintenance on the instrument in a location that does not comply with the installation location specified by Yokogawa.**

- **Problems or damage resulting from repairs or modifications not performed by Yokogawa or someone authorized by Yokogawa.**
- **Problems or damage resulting from inappropriate installation after delivery.**
- **Problems or damage resulting from disasters such as fires, earthquakes, storms, floods, or lightning strikes and external causes.**

Warranty and Disclaimer

- **Yokogawa assumes no responsibilities for this product except as stated in the warranty.**
- **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.**

Authorized Representative in the EEA

The Authorized Representative for this product in the EEA is: Yokogawa Europe B.V.

Euroweg 2, 3825 HD Amersfoort, THE NETHERLANDS.

Notes on Hardware

Appearance and Accessories

Check the following when you receive the product:

- Appearance
- Standard accessories

Contact our sales representative or your local distributor if the product's coating has come off or any accessories are missing.

Model and Suffix Codes

The name plate on the product contains the model and suffix codes. Verify that the specification indicated in the "MODEL AND SUFFIX CODES" and "OPTIONAL SPECIFICATIONS" in General Specifications "GS 01W02E02-01EN" is in compliance with the specifications written on the order sheet. If you have any questions, contact our sales office or your local distributor.

Notes on Software (Setup Tool)

- **For details on how to install the Setup Tool, see User's Manual (IM 01W02E02-01EN).**
- **Before installing the Setup Tool, read Field Wireless Access Point Setup Tool Software License Agreement. Once the Setup Tool is installed, it is thought that the contract is agreed.**
- **Yokogawa assumes no responsibilities for this software except as stated in the warranty.**
- **This software is used with this product exclusively. This can be installed in the computer which connects with this product.**

Regulatory Compliance for Radio and Telecommunication

Please confirm that an installation region fulfills a standards, require additional regulatory information and approvals, contact to Yokogawa Electric Corporation.

Radio Equipment Directive

Hereby, Yokogawa Electric Corporation declares that the radio equipment type YFGW520 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

https://myportal.yokogawa.com/

The Authorized Representative for this product in the EEA is:

Yokogawa Europe B.V. Euroweg 2, 3825 HD Amersfoort, THE NETHERLANDS.

and the importer for this product into the EU/EEA market via the YOKOGAWA sales channel is:

Yokogawa Europe B.V. Euroweg 2, 3825 HD Amersfoort, THE NETHERLANDS.

EMC Conformity Standards

EN 301 489-1, EN 301 489-17, EN 61326-1, EN 55011 Class A, Group 1, EN 61000-6-2

CAUTION

This equipment is a Class A product.

This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Please use this equipment in the industrial environment only.

Safety Conformity Standards

Applicable standard: EN 61010-1, EN 62479, EN 60825-1, CAN/CSA-C22.2 No.61010-1

(1) Pollution Degree 2

“Pollution degree” describes the degree to which a solid, liquid, or gas which deteriorates dielectric strength or surface resistivity is adhering. “2” applies to normal indoor atmosphere. Normally, only non-conductive pollution occurs. Occasionally, however, temporary conductivity caused by condensation must be expected.

(2) Installation Category I

“Overvoltage category (Installation category)” describes a number which defines a transient overvoltage condition. It implies the regulation for impulse withstand voltage. “I” applies to electrical equipment which is supplied from the circuit when appropriate transient overvoltage control means (interface) are provided.

(3) Indoor/Outdoor use

It can be used in indoors and outdoors.

(4) Altitude of installation site

Max. 3,000 m above sea level

(5) Laser Safety

100BASE-FX (Single mode Fiber) model of YFGW520 is compliant with class 1 laser in accordance with IEC/EN 60825-1: 2014 and CDRH 21-CFR 1040.



CAUTION

- To avoid eye injury although, please do not see a light source.



CAUTION

- When the maximum operating temperature is more than 60°C, use the wiring cable of 80°C or higher temperature rating.

Spectrum Conformity Standard

EN 300 328

Cyber Security Conformity Standard

EN 18031-1

FCC compliance

FCC ID: SGJ-WFC015

FCC Approval (Part 15C)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Co-located:

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RF Exposure Compliance:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

ISED compliance

IC: 8999A-WIC014

This device complies with ISED's applicable licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This radio transmitter 8999A-WIC014 has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna type	Gain
Sleeve	2.14 dBi
Collinear	9 dBi
Hybrid patch	15 dBi

French:

Le présent appareil est conforme aux CNR d'ISDE applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le présent émetteur radio 8999A-WIC014 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal.
Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Type d'antenne	Gain
Sleeve	2.14 dBi
Collinear	9 dBi
Hybrid patch	15 dBi

RF Exposure Compliance:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

French:

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le radiateur et le corps humain.

RRA compliance

This product complies with the Radio Waves Act (Republic of Korea).

Registration No: R-R-YHQ-WRA011, R-C-YHQ-WRA013
Equipment Name: Field Wireless Access Point
Model name: YFGW520
Trade Name: Yokogawa Electric Corp.
Manufacturer: Yokogawa Electric Corp.
Country of Origin: Japan

Control of Pollution Caused by the Product

EU RoHS

This product is in conformity with the following standard:

EN IEC 63000 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances)

China RoHS

Please refer to the IM 01C00A20-01ZH for information on our management status pursuant to "Control of Pollution caused by Electronic Information Products" of the People's Republic of China. Please search for the IM number in the Yokogawa library " https://www.yokogawa.com/library/ ".

Explosion Protected Type Specifications

■ Optional Specifications (For Explosion Protected Type)

Item		Description	Code
Factory Mutual (FM) *1*2*3	United States	FM Nonincendive Approval (United States) Certificate: FM17US0294X Applicable standard: FM Class 3600, FM Class 3611, FM Class 3810, NEMA 250 Nonincendive for Class I, Division 2, Groups A, B, C and D. Class I, Zone 2, Group IIC. Suitable for Class II, Division 2, Groups F and G, and Class III, Division 1 Enclosure: Type 4X Amb. Temp.(Tamb): -40 to 70°C (-40 to 158°F), Altitude: Up to 3000 m	**FN17**
	Canada	FM Non-Incendive and Type n Approval (Canada) Certificate: FM17CA0150X Applicable standard: C22.2 No. 94-2, C22.2 No. 213, CAN/CSA-C22.2 No. 60079-0, CAN/CSA-C22.2 No. 60079-11, CAN/CSA-C22.2 No. 60079-15, CAN/CSA-C22.2 No. 60529, CAN/CSA-C22.2 No. 61010-1 Non-incendive for Class I, Division 2, Groups A, B, C, D Suitable for Class II, Division 2, Groups F, G; Class III, Division 1 Ex nA [ic] IIC T4 Gc Enclosure: Type 4X, IP66 Amb. Temp(Tamb): -30 to 70°C (-22 to 158°F), Altitude: Up to 3000 m	**CN17**
ATEX *1*2		ATEX Increased safety declaration Applicable standard: EN IEC 60079-0, EN IEC 60079-7, EN 60079-11 II 3 G Ex ec [ic Gc] IIC T4 Gc X Enclosure: IP66 in accordance with EN IEC 60079-0 Amb. Temp.(Tamb): -30 to 70°C (-22 to 158°F) Atmospheric pressure: 70 kPa to 110 kPa (Altitude: Up to 3000 m)	**KN27**
		ATEX Flameproof Approval Certificate: DEKRA 15ATEX0042 X Applicable Standard: EN 60079-0, EN 60079-1, EN 60079-11 II 2 G Ex db [ib Gb] IIC T4 Gb Um: 250 V Amb. Temp.(Tamb): -40 to 70°C (-40 to 158°F)	**KF27**
IECEx *1*2*3		IECEx Increased safety Approval Certificate: IECEx DEK 14.0028X Applicable standard: IEC 60079-0, IEC 60079-7, IEC 60079-11 Ex ec [ic Gc] IIC T4 Gc Enclosure: IP66 in accordance with IEC 60079-0 Amb. Temp.(Tamb): -30 to 70°C (-22 to 158°F) Atmospheric pressure: 70 kPa to 110 kPa (Altitude: Up to 3000 m)	**SN27**
		IECEx Flameproof Approval Certificate: IECEx DEK 15.0021X Applicable Standard: IEC 60079-0, IEC 60079-1, IEC 60079-11 Ex db [ib Gb] IIC T4 Gb Um: 250 V Amb. Temp.(Tamb): -40 to 70°C (-40 to 158°F)	**SF27**

*1: G1/2 electrical connection (Electrical connection code: 0) cannot be selected.
*2: Applies only English manual language (Manual language code: 1).
*3: CE marking is omitted from the product when this option is selected.

Installation of an Explosion Protected Instrument

If a customer makes a repair or modification to an explosion protected instrument and the instrument is not restored to its original condition, its explosion protected construction may be compromised and the instrument may be hazardous to operate. Please contact Yokogawa before making any repair or modification to an instrument.

CAUTION

The installation of the devices should be carried out by the engineers or other professional personnel of the related expertise. The installation should not be carried out by operators or other unprofessional personnel.

CAUTION

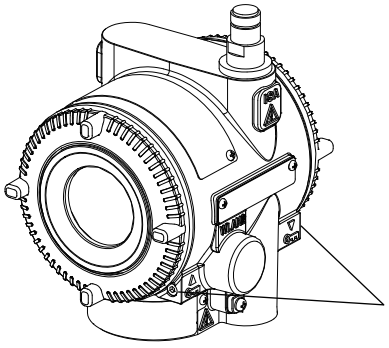
This instrument has been tested and certified as being explosion protected. Please note that severe restrictions apply to this instrument's construction, installation, external wiring, maintenance and repair. A failure to abide by these restrictions could make the instrument a hazard to operate.

WARNING

- A modification of the equipment would no longer comply with the construction described in the certificate documentation.
- To preserve the safety of Flameproof equipment requires great care during mounting, wiring, and piping. Safety requirements also place restrictions on maintenance and repair activities. Please read the following sections very carefully.

NOTE

- The front and rear cover are locked by an Allen head bolt (a shrouding bolt) on Flameproof type instruments. When the shrouding bolt is driven clockwise by an Allen wrench, it is going in and cover lock is released, and then cover can be opened by hand.
- When a cover is closed, it is the must turn the shrouding bolt counterclockwise and lock the cover. Tighten the shrouding bolt to a torque of 0.7 N·m.



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NOTE

- YFGW520 should be installed in upright position.
- YFGW520 does not have a power switch inside. Prepare a dedicated breaker for the external power line to turn ON/OFF the device.
- Make sure that the breakers are installed in the power supply circuits located in non-hazardous areas so that the power can be shutoff when abnormality occurs.
- Electrostatic charge may cause an explosion hazard. Avoid any actions that cause the generation of electrostatic charge, such as rubbing with a dry cloth on the non-metalic parts (excluding glass parts) or coated parts of product.
- Take care not to generate mechanical sparking when access to the instrument and peripheral devices in hazardous area.
- The antenna and surge protective device provided with YFGW520 are simple apparatus in accordance with IEC 60079-11 or EN 60079-11.
  - They are passive components and their internal inductance and capacitance are negligible regarding intrinsically safe installation.
  - They do not contain any voltage and/or current-limiting devices.
  - They do not contain any means of increasing voltage or current, such as DC-DC converters.
  - Surge protective device is not separated from the earth and must earthed together with YFGW520 in accordance with IEC 60079-14 or EN 60079-14.
  - Surge protective device has metallic enclosures and no risk for electrostatic discharges.
  - As for the temperature class, they are classified as T4 for Ta ≤ 70°C, since the power applied to them is ≤ 130 mW and their surface area is > 20 mm^2.
  - Lc of the provided cable is 0.21 µH/m.
  - Cc of the provided cable is 83 pF/m.

FM Approval (United States)

Caution for FM Nonincendive Approval (United States).

(1) Technical Data

Note 1. Model YFGW520 Field Wireless Access Point with optional code FN17 is applicable for use in hazardous (classified) locations.

- Applicable standards: FM Class 3600, FM Class 3611, FM Class 3810, NEMA 250
- Nonincendive for Class I, Division 2, Groups A, B, C and D; Class I, Zone 2, Group IIC
  Suitable for Class II, Division 2, Groups F and G, and Class III, Division 1
- Locations: Indoor and Outdoor use
- Enclosure: Type 4X
- Temperature Class: T4
- Ambient Temperature: -40 to 70°C (-40 to 158°F)
- Altitude: Up to 3000 m
- Power Supply: Rated Voltage: 24 V DC
  Voltage Range*1: 10.0-26.4 V DC

  *1: The equipment shall not be operated outside the range.
- Power dissipation: ≤ 3.5 W
- RF Power: ≤ 60 mW

(2) Electrical Parameters

Refer to Control Drawing (NFM027-A15).

(3) Operation

Refer to Control Drawing (NFM027-A15).

(4) Maintenance and Repair

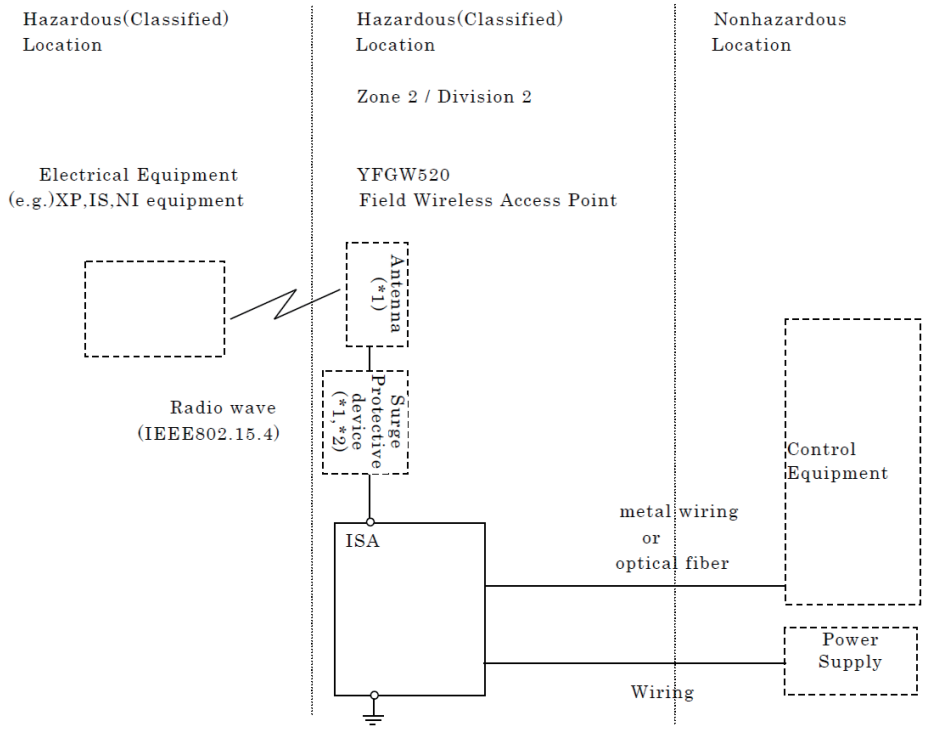
WARNING

- Only personnel authorized by Yokogawa Electric Corporation can repair the equipment.

(5) Control Drawing

Model:YFGW510 Date: Aug. 1, 2017

Control Drawing for YFGW520 (US)



*1:These apparatus are simple apparatus.
*2:Surge Protective device is not always installed.

Specific Condition of Use:
- The equipment may be used at altitudes up to 3000 m.
- Upon installation, the intrinsically safe circuits of the field wireless access point shall be connected to earth.

Rev. Doc. No.:NFM027-A15 P.1

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Model:YFGW510 Date: Aug. 1, 2017

Notes:

1. The installation must be in accordance with the National Electrical Code (NFPA 70) and/or relevant local codes.
2. The antenna and the surge protective devices must be simple apparatus in accordance with NFPA 70. Their maximum temperature must be determined from Po = 60 mW for the ISA connection.
3. Nonincendive field wiring of the antenna and/or the surge protective devices must meet the following conditions:

   (total Li of simple apparatuses) + (total Lcable) ≤ 3 mH

   (total Ci of simple apparatuses) + (total Ccable) ≤ 0.8 µF
4. The equipment must be grounded in accordance with NFPA 70.

WARNING:

- DO NOT REMOVE COVER WHILE CIRCUIT IS LIVE WHEN A FLAMABLE OR COMBUSTIBLE ATMOSPHERE IS PRESENT.

Rev. Doc. No.:NFM027-A15 P.2

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NOTE

The equipment must be installed in accordance with the user's manual.

FM Approval (Canada)

Caution for FM Nonincendive Approval (Canada).

(1) Technical Data

Note 1. Model YFGW510 Field Wireless Access Point with optional code CN17 is applicable for use in hazardous area.

- Certificate: FM17CA0150X
- Applicable standards:
  C22.2 No. 94-2, C22.2 No. 213, CAN/CSA-C22.2 No. 60079-0:2015,
  CAN/CSA-C22.2 No. 60079-11:2014, CAN/CSA-C22.2 No. 60079-15:2016,
  CAN/CSA-C22.2 No. 60529, CAN/CSA-C22.2 No. 61010-1
- Hazardous Location Ratings:
  Nonincendive for Class I, Division 2, Groups A, B, C, D;
  Suitable for Class II, Division 2, Groups F,G; Class III, Division 1
  Ex nA [ic] IIC T4 Gc
- Temperature Class: T4
- Ambient Temperature: -30 to 70°C (-22 to 158°F)
- Altitude: ≤ 3000 m
- Enclosure: Type 4X, IP66
- Power Supply: Rated Voltage: 24 V DC
  Voltage Range*1 : 10.0-26.4 V DC

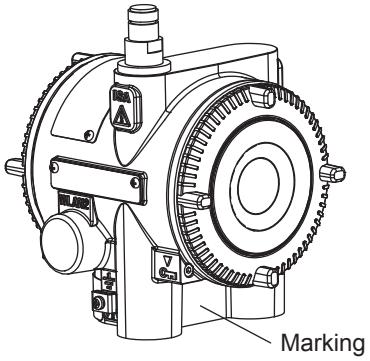
  *1: The equipment shall not be operated outside the range.
- Power dissipation: ≤ 3.5 W
- RF Power: ≤ 60 mW

(2) Electrical Connection

The type of electrical connection depends on the marking below on YFGW520.

Marking	The type of electrical connection	Note
M	M20 (ISO)	M20 X 1.5
A or N	ANSI 1/2 NPT	1/2-14 NPT

- This marking is incused at the back side of the electrical connection block.



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(3) Operation

The equipment shall be installed so that pollution degree 2 in accordance with IEC 60664-1 is maintained inside the enclosure.

WARNING

- Electrostatic charges on the non-metallic parts (excluding glass parts) or coated parts of the Field Wireless Access Point shall be avoided.
- Take care not to generate mechanical sparking when accessing to the equipment and peripheral device in hazardous locations.

(4) Maintenance and Repair

The maintenance of the equipment must be in accordance with the user's manual.

When opening the cover, the enclosure should be dry and clean to prevent the ingress of water and dust.

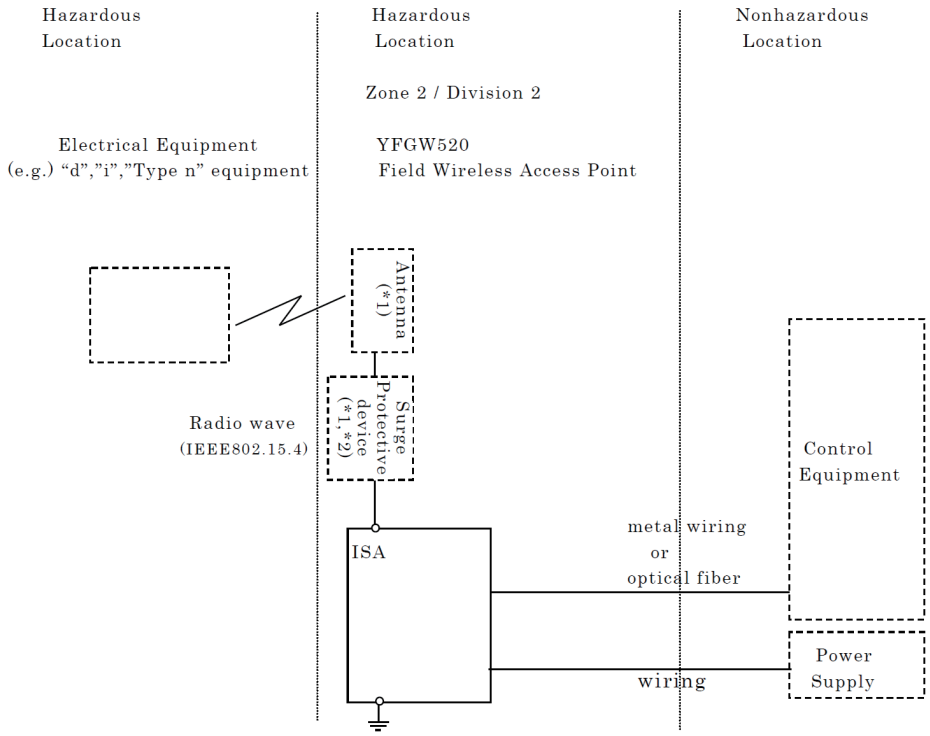
WARNING

- Only personnel authorized by Yokogawa Electric Corporation can repair the equipment.

(5) Control Drawing

Model:YFGW510 Date: Aug. 1, 2017

Control Drawing for YFGW520 (Canada)



*1:These apparatus are simple apparatus.
*2:Surge Protective device is not always installed.

Specific Condition of Use:

- The equipment shall be installed so that pollution degree 2 in accordance with IEC 60664-1 is maintained inside the enclosure.
- The equipment may be used at altitudes up to 3000 m.
- Upon installation, the intrinsically safe circuits of the field wireless access point shall be connected to earth.

Rev. Doc. No.:NFM027-A15 P.3

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Model:YFGW510 Date: Aug. 1, 2017

Notes:

1. The installation must be in accordance with the Canadian Electric Code Part I (C22.1) and/or relevant local codes.
2. The antenna and the surge protective devices must be simple apparatus in accordance with the relevant standard. Their maximum temperature must be determined from Po = 60 mW for the ISA connection.
3. Nonincendive field wiring or "ic" wiring of the antenna and/or the surge protective devices must meet the following conditions:

   (total Li of simple apparatuses) + (total Lcable) ≤ 3 mH

   (total Ci of simple apparatuses) + (total Ccable) ≤ 0.8 µF
4. The equipment must be grounded in accordance with C22.1 and ANSI/ISA-RP12.06.01. A cable lug or a similar device must be used to maintain the secureness of the grounding connection. Care should be taken to avoid multi-point grounding since the equipment is not galvanically isolated from the power supply.
5. Electrostatic charges on the non-metallic parts (excluding glass parts) or coated parts of the Field Wireless Access Point must be avoided.
6. The thread type of the cable entries must be confirmed according to the user's manual.
7. When the ambient temperature is ≥ 50 °C, use heat-resisting cables and cable glands with rated temperatures of ≥ 80 °C
8. Cable glands, adapters and/or blanking elements must be installed so as to maintain the specified degree of protection (IP Code and/or Type 4X) of the equipment.
9. Screws of power supply terminals must be tightened with specified torque values: 1.2 Nm to 1.4Nm. The size of the connected conductors must be No. 14 AWG (2 mm^2).
10. Keep the cap attached to the antenna connector (N type) until the installation of the antenna or antenna cables to protect the inside of the connector from exposure of light. In case the antenna or antenna cables are removed from the connector, the inside of the antenna connector should be protected from exposure of light.

WARNING/AVERTISSEMENT:
- POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS
- DANGER POTENTIEL DE CHARGES ÉLECTROSTATIQUES – VOIR INSTRUCTIONS
- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
- NE PAS OUVRIR EN PRÉSENCE D'UNE ATMOSPHÈRE EXPLOSIVE

Rev. Doc. No.:NFM027-A15 P.4

Yokogawa Electric Corporation

F07.ai



NOTE

The equipment must be installed in accordance with the user's manual.

ATEX

A. Caution for ATEX Increased safety declaration

Model YFGW520 Field Wireless Access Point with optional code /KN27 or /KE27 is applicable for use in hazardous area.

(1) Technical Data

- Applicable standard: EN IEC 60079-0, EN IEC 60079-7, EN 60079-11
- Marking: Ⓔx II 3 G Ex ec [ic Gc] IIC T4 Gc X
- Ambient temperature:-30°C to +70°C (aluminum alloy housing)
- Atmospheric pressure: 70 kPa to 110 kPa (Altitude: ≤ 3000 m)
- Enclosure: IP66 in accordance with EN IEC 60079-0
- Cable entry: See “(3) Installation and erection”
- Power supply: 24 V DC (Range: 10.0 V DC to 26.4 V DC)

  Note: The equipment shall not be operated outside the range.
- Power consumption: ≤ 3.5 W
- RF source: ≤ 60 mW

(2) Specific conditions of use

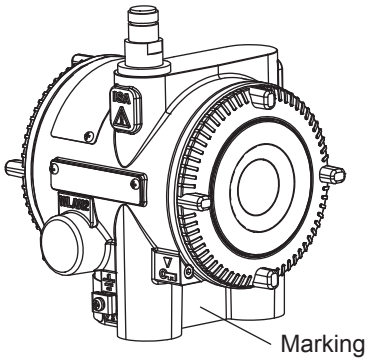
- The equipment shall be installed so that pollution degree 2 in accordance with EN 60664-1 is maintained inside the enclosure.

(3) Installation and erection

- The equipment shall be installed in accordance with EN 60079-14 and relevant local codes and requirements.
- The ambient temperature range for the Field Wireless Access Point is -30°C to +65°C (stainless steel housing) or -30°C to +70°C (Aluminum alloy housing).
- Cable entry devices must be suitable for the thread form and the size of the cable entries, according to the following marking on the equipment.

Marking	Screw size
M	ISO M20 × 1.5 female
A or N	ANSI 1/2 NPT female

This marking is incused at the back side of the electrical connection block.



F10.ai

- Keep the cap attached to the antenna connector (N-type) until the installation of the antenna or antenna cables to protect the inside of the connector from exposure of light. In case the antenna or antenna cables are removed from the connector, the inside of the antenna connector must be protected from exposure of light.
- Screws of power supply terminals must be tightened to 1.2 N·m to 1.4N·m. For type of protection “ec”, method of connection must be using lugs or similar devices. Bare conductive parts of the cable connected to the positive (+) and negative (-) terminals of the power supply terminals must be separated at least 1.5 mm.
- M20 × 1.5 or NPT1/2 thread type cable entry, adapters and/or blanking elements used in product, certified by notified bodies with type of protection at least: Ex ec IIC Gc or Ex dc IIC Gc or Ex nA IIC Gc in accordance with EN IEC 60079-0, EN 60079-1, EN IEC 60079-7 and EN IEC 60079-15 as applicable, should be applied when installed in explosive gas atmospheres. The use of cable entry device must comply with the requirements of its operating instructions. After installation IP must be at least IP54.
- The temperature class of the antennas and the surge protection devices must be determined in accordance with EN 60079-14, using Po = 60 mW for ISA antenna connector.
- The equipment must be earthed in accordance with EN 60079-14, in order to maintain intrinsic safety. A cable lug or a similar device shall be used to maintain the secureness of the earth connection. Care must be taken to avoid multi-point earthing since the equipment is not galvanically isolated from the power supply.
- See the control drawing.

(4) Use and setting-up (Operation)

WARNING

- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
- WHEN THE AMBIENT TEMPERATURE IS ≥ 60°C, USE HEAT-RESISTING CABLES AND CABLE GLANDS WITH RATED TEMPERATURES OF ≥ 80°C.
- POTENTIAL ELECTROSTATIC CHARGING HAZARD.
  In hazardous areas, avoid any actions which generate electrostatic charges, such as rubbing the equipment with a dry cloth.
- SEE USER’S MANUAL

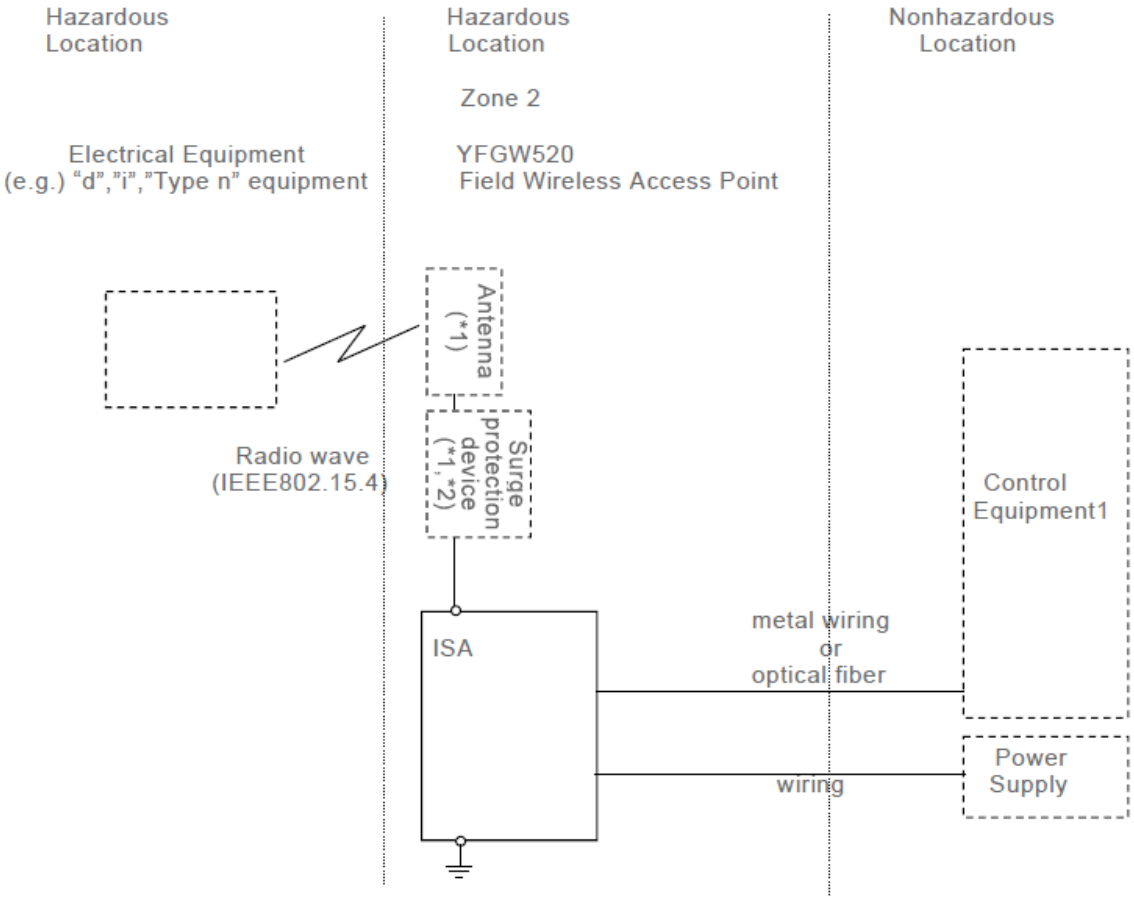
(5) Maintenance and repair

WARNING

- A modification of the equipment would no longer comply with the construction described in the certificate documentation.
- Only personnel authorized by Yokogawa Electric Corporation can repair the equipment.

(6) Control drawing

Increased safety

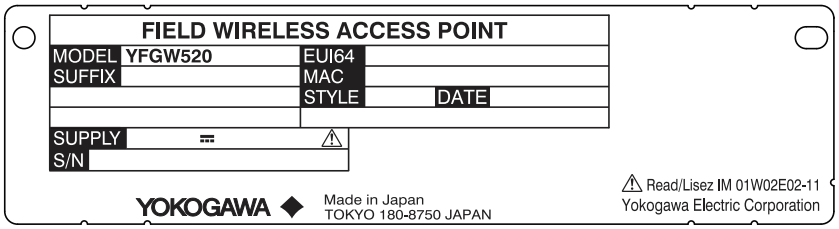


*1:These apparatus are simple apparatus.
*2:Surge protection device is not always installed.

Note 1: The following conditions must be met for the connections to ISA.
(total Li of simple apparatuses) + (total Lc) ≤ 3 mH
(total Ci of simple apparatuses) + (total Cc) ≤ 0.8 μF

(7) Nameplate

- Main name plate for Increased safety



F11.ai

MODEL: Specified model code.

SUFFIX: Specified suffix code.

STYLE: Style code.

SUPPLY: Specified supply voltage and wattage.

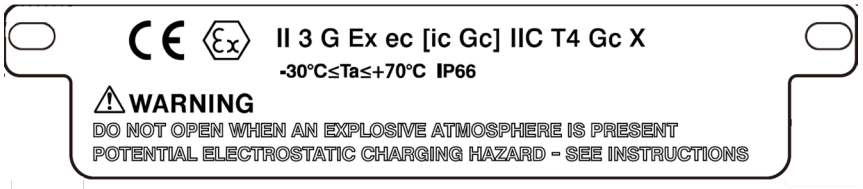
NO.: Serial number and year of production *1.

YOKOGAWA ◆ TOKYO 180-8750 JAPAN:
The manufacturer name and the address *2.

*1: Production year and month are shown as yyyy.mm.
For example, 2013.01 denotes January 2013.

*2: "180-8750" is a zip code which represents the following address.
2-9-32 Nakacho, Musashino-shi, Tokyo Japan

- Hazardous class name plate for Increased safety



B. Caution for ATEX Flameproof Certification

Model YFGW520 Field Wireless Access Point with optional code /KF27 is applicable for use in hazardous area.

(1) Technical Data

- Applicable standard: EN IEC 60079-0, EN 60079-1, EN 60079-11
- Certificate number: DEKRA 15ATEX0042 X
- Marking:  II 2 G Ex db [ib Gb] IIC T4 Gb
- Ambient temperature: -40°C to +70°C (aluminum alloy housing)
- Atmospheric pressure: 80 kPa to 110 kPa (Altitude: ≤ 2000 m)
- Cable entry: See “(3) Installation and erection”
- Power supply:
  Rated Voltage: 24 V DC
  Voltage Range (Note): 10.0 to 26.4 V DC

  Note: The equipment shall not be operated outside the range.
- Power consumption: ≤ 3.5 W
- Electrical parameters: Um: 250 V
- RF source: ≤ 130 mW

(2) Specific conditions of use

- The flame paths differ from the standard values in EN 60079-1. Only personnel authorized by Yokogawa Electric Corporation may repair the equipment.
- From the safety point of view, the intrinsically safe circuit of the Field Wireless Access Point model YFGW520 shall be assumed to be connected to earth.

(3) Installation and erection

- See the control drawing.



NOTE

- The equipment must be installed in accordance with EN 60079-14 and relevant local codes.
- Electrostatic charges on the non-metallic parts (excluding glass parts) or coated parts of the Field Wireless Access Point must be avoided.
- Screws of power supply terminals must be tightened with specified torque values: 1.2 Nm to 1.4 Nm.
- Cable glands and adapters must be of Ex “d” (or “db”) for Ex “d” (or “db”) installations.
- In order to prevent the earthing conductor from loosening, the conductor must be secured to the terminal, tightening the screw with appropriate torque. Care must be taken not to twist the conductor.



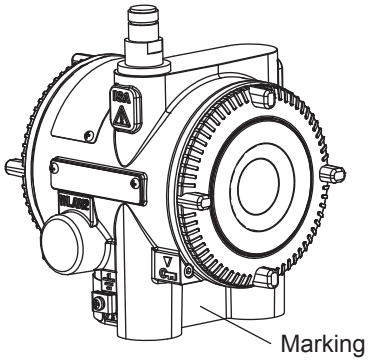
WARNING

- WHEN THE AMBIENT TEMPERATURE IS ≥ 60°C, USE HEAT-RESISTING CABLES AND CABLE GLANDS WITH RATED TEMPERATURES OF ≥ 80°C.

- Electrical Connection
  Cable entry devices suitable for the thread form and the size of the cable entries must be used, according to the following marking on the equipment.
  The type of electrical connection depends on the marking below on YFGW520.

Marking	The type of electrical connection	Note
M	M20 (ISO)	M20 X 1.5
A or N	ANSI 1/2 NPT	1/2-14 NPT

This marking is incused at the back side of the electrical connection block.



F10.ai

(4) Use and setting-up (operation)

- See the control drawing.

WARNING

- Take care not to generate mechanical sparking when access to the instrument and peripheral devices in hazardous area.
- POTENTIAL ELECTROSTATIC CHARGING HAZARD.
  Electrostatic charge may cause an explosion hazard.
  Avoid any actions that cause the generation of electrostatic charge, such as rubbing with dry cloth on coating face of product.

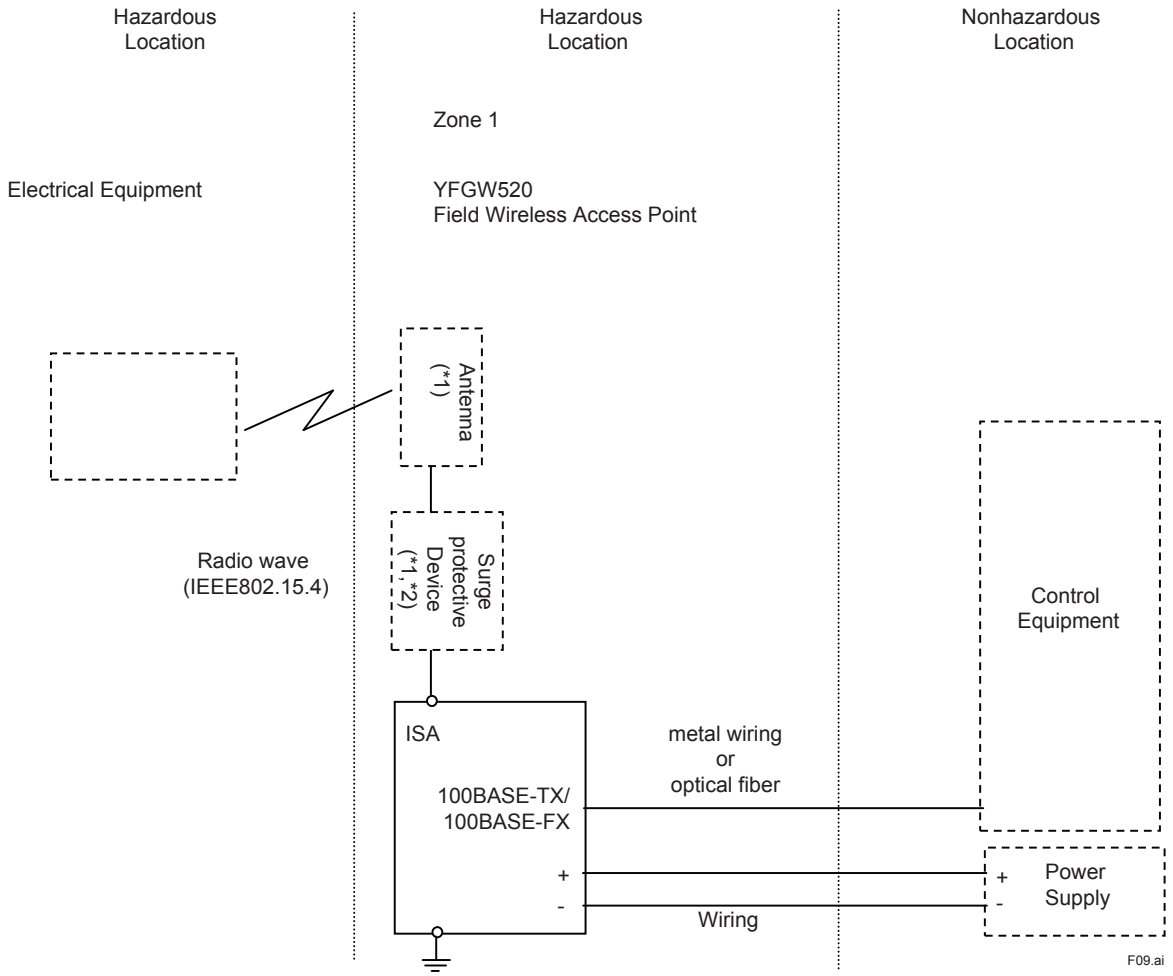
(5) Maintenance and repair

WARNING

- AFTER DE-ENERGIZING, DELAY 1 MINUTE BEFORE OPENING.
- A modification of the equipment would no longer comply with the construction described in the certificate documentation.
- Only personnel authorized by Yokogawa Electric Corporation can repair the equipment.

- When opening the cover, the enclosure should be dry and clean to prevent the ingress of water and dust.

(6) Control drawing



*1: These apparatus are simple apparatus.

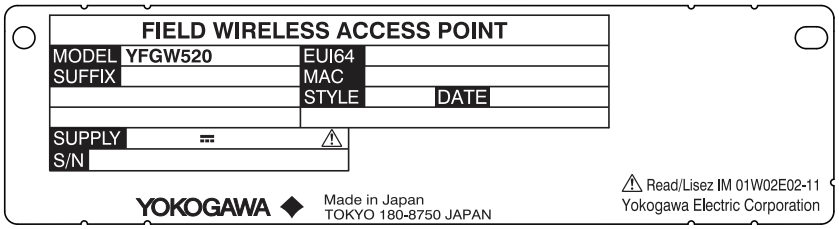
*2: Surge protective Device is not always installed.

NOTE

- The temperature class of the antenna and the surge protective device must be determined in accordance with EN 60079-14, using Po = 130 mW for ISA antenna connector.
- The following conditions must be met for the connections to ISA
  (total Li of simple apparatuses) + (total Lc) ≤ 0.5 mH
  (total Ci of simple apparatuses) + (total Cc) ≤ 0.09 µF
- The equipment must be earthed in accordance with EN 60079-14, in order to maintain intrinsic safety. A cable lug or a similar device must be used to maintain the secureness of the connection to the equipment. Care must be taken to avoid multi-point earthing since the equipment is not galvanically isolated from the power supply.

(7) Nameplate

- Main name plate for Frameproof type.



F11.ai

MODEL: Specified model code.

SUFFIX: Specified suffix code.

STYLE: Style code.

SUPPLY: Specified supply voltage and wattage.

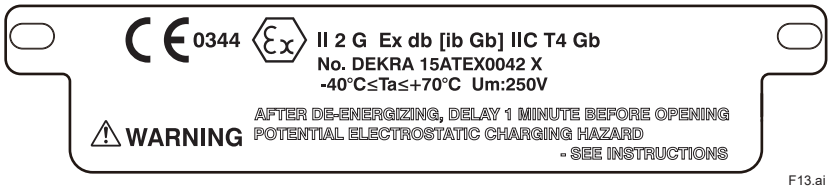
NO.: Serial number and year of production *1.

YOKOGAWA ◆ TOKYO 180-8750 JAPAN:
The manufacturer name and the address *2.

*1: Production year and month are shown as yyyy.mm.
For example, 2013.01 denotes January 2013.

*2: "180-8750" is a zip code which represents the following address.
2-9-32 Nakacho, Musashino-shi, Tokyo Japan

- Hazardous class name plate for Frameproof type



F13.ai

IECEx

A. Caution for IECEx Increased safety Certification

Model YFGW520 Field Wireless Access Point with optional code /SN27 is applicable for use in hazardous area.

(1) Technical Data

- Applicable standard: IEC 60079-0, IEC 60079-7, IEC 60079-11
- Certificate number: IECEx DEK 14.0028X
- Marking: Ex ec [ic Gc] IIC T4 Gc X
- Ambient temperature: -30°C to +70°C (aluminum alloy housing)
- Atmospheric pressure: 70 kPa to 110 kPa (Altitude: ≤ 3000 m)
- Enclosure: IP66 in accordance with IEC 60079-0
- Cable entry: See “(3) Installation and erection”
- Pollution degree category: 2 inside the enclosure
- Overvoltage category: I
- Power supply: 24 V DC (Range: 10.0 V DC to 26.4 V DC)

  Note: The equipment shall not be operated outside the range.
- Power consumption: ≤ 3.5 W
- RF source: ≤ 60 mW

(2) Specific conditions of use

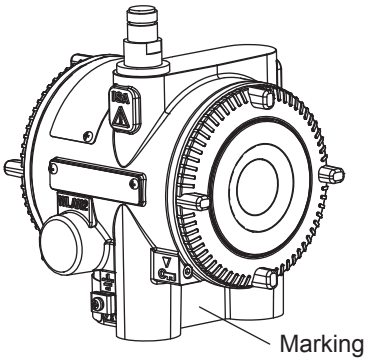
- The equipment shall be installed so that pollution degree 2 in accordance with IEC 60664-1 is maintained inside the enclosure.

(3) Installation and erection

- The equipment shall be installed in accordance with IEC 60079-14 and relevant local codes and requirements.
- The ambient temperature range for the Field Wireless Access Point is -30°C to +65°C (stainless steel housing) or -30°C to +70°C (Aluminum alloy housing).
- The rated voltage is 24 V DC (10 V DC to 26.4 V DC). Power dissipation is ≤ 3.5 W.
- Cable entry devices must be suitable for the thread form and the size of the cable entries, according to the following marking on the equipment.

Marking	Screw size
M	ISO M20 × 1.5 female
A or N	ANSI 1/2 NPT female

This marking is incused at the back side of the electrical connection block.



F10.ai

- Keep the cap attached to the antenna connector (N-type) until the installation of the antenna or antenna cables to protect the inside of the connector from exposure of light. In case the antenna or antenna cables are removed from the connector, the inside of the antenna connector must be protected from exposure of light.
- Screws of power supply terminals must be tightened to 1.2 N·m to 1.4N·m. For type of protection “ec”, method of connection must be using lugs or similar devices. Bare conductive parts of the cable connected to the positive (+) and negative (-) terminals of the power supply terminals must be separated at least 1.5 mm.
- M20 × 1.5 or NPT1/2 thread type cable entry, adapters and/or blanking elements used in product, certified by notified bodies with type of protection at least: Ex ec IIC Gc or Ex dc IIC Gc or Ex nA IIC Gc in accordance with IEC 60079-0, IEC 60079-1, IEC 60079-7 and IEC 60079-15 as applicable, should be applied when installed in explosive gas atmospheres. The use of cable entry device must comply with the requirements of its operating instructions. After installation IP must be at least IP54.
- The temperature class of the antennas and the surge protection devices must be determined in accordance with IEC 60079-14, using Po = 60 mW for ISA antenna connector.
- The equipment must be earthed in accordance with IEC 60079-14, in order to maintain intrinsic safety. A cable lug or a similar device shall be used to maintain the secureness of the earth connection. Care must be taken to avoid multi-point earthing since the equipment is not galvanically isolated from the power supply.
- See the control drawing.

(4) Use and setting-up (Operation)

WARNING

- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
- WHEN THE AMBIENT TEMPERATURE IS ≥ 60°C, USE HEAT-RESISTING CABLES AND CABLE GLANDS WITH RATED TEMPERATURES OF ≥ 80°C.
- POTENTIAL ELECTROSTATIC CHARGING HAZARD.
  In hazardous areas, avoid any actions which generate electrostatic charges, such as rubbing the equipment with a dry cloth.
- SEE USER’S MANUAL

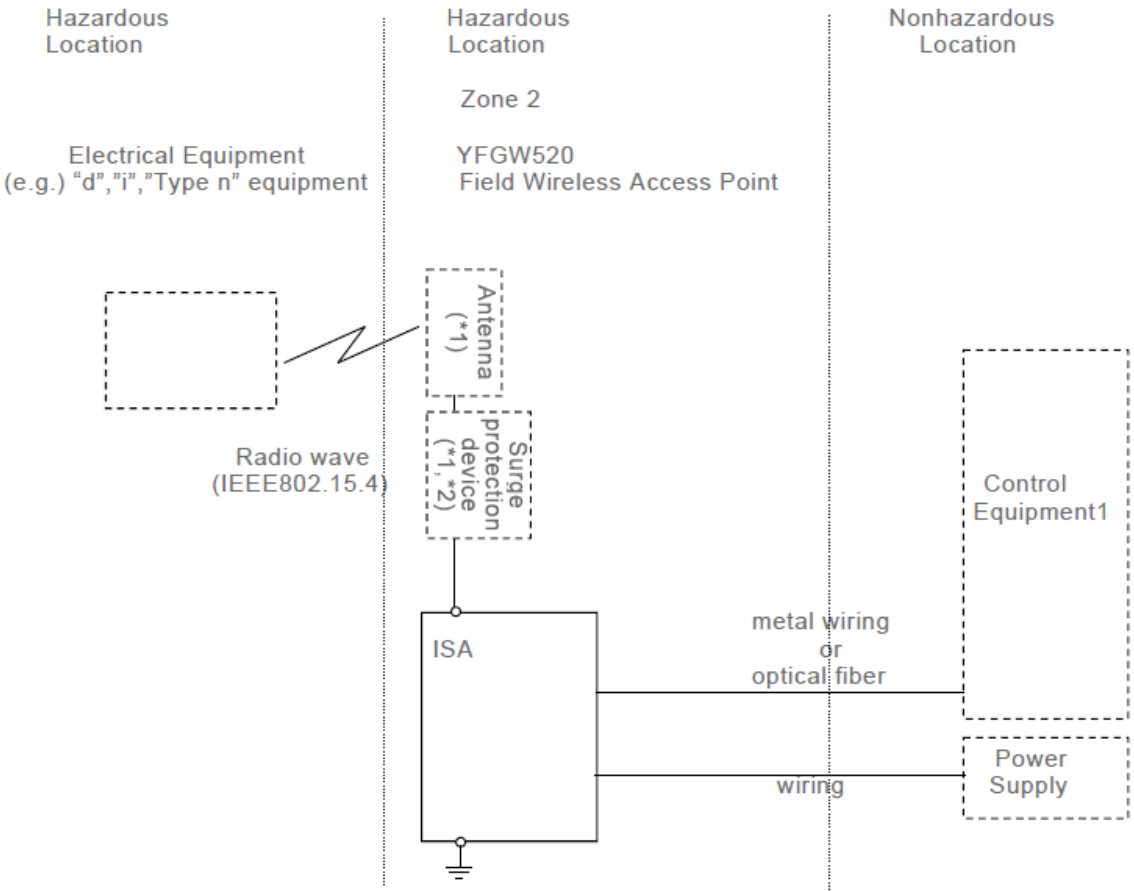
(5) Maintenance and repair

WARNING

- A modification of the equipment would no longer comply with the construction described in the certificate documentation.
- Only personnel authorized by Yokogawa Electric Corporation can repair the equipment.

(6) Control drawing

Increased safety

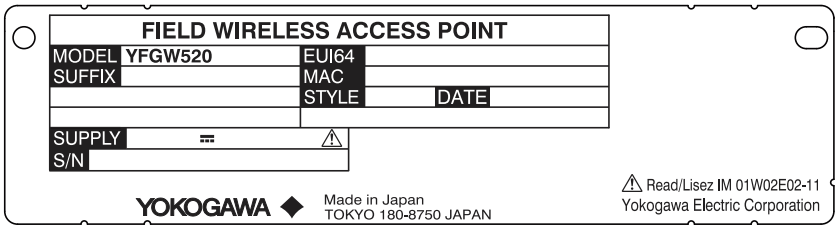


*1:These apparatus are simple apparatus.
*2:Surge protection device is not always installed.

Note 1: The following conditions must be met for the connections to ISA.
(total Li of simple apparatuses) + (total Lc) ≤ 3 mH
(total Ci of simple apparatuses) + (total Cc) ≤ 0.8 μF

(7) Nameplate

- Main name plate for Increased safety



F17.ai

MODEL: Specified model code.

SUFFIX: Specified suffix code.

STYLE: Style code.

SUPPLY: Specified supply voltage and wattage.

NO.: Serial number and year of production *1.

YOKOGAWA ◆ TOKYO 180-8750 JAPAN:
The manufacturer name and the address *2.

*1: Production year and month are shown as yyyy.mm.
For example, 2015.01 denotes January 2015.

*2: "180-8750" is a zip code which represents the following address.
2-9-32 Nakacho, Musashino-shi, Tokyo Japan

- Hazardous class name plate for Increased safety



B. Caution for IECEx Flameproof Certification

Model YFGW520 Field Wireless Access Point with optional code /SF27 is applicable for use in hazardous area.

(1) Technical Data

- Applicable standard: IEC 60079-0, IEC 60079-1, IEC 60079-11
- Certificate number: IECEx DEK 15.0021X
- Marking: Ex db [ib Gb] IIC T4 Gb
- Ambient temperature: -40°C to +70°C (aluminum alloy housing)
- Atmospheric pressure: 80 kPa to 110 kPa (Altitude: ≤ 2000 m)
- Cable entry: See “(3) Installation and erection”
- Power supply:
  Rated Voltage: 24 V DC
  Voltage Range (Note): 10.0 to 26.4 V DC

  Note: The equipment shall not be operated outside the range.
- Power consumption: ≤ 3.5 W
- Electrical parameters: Um: 250 V
- RF source: ≤ 130 mW

(2) Specific conditions of use

- The flame paths differ from the standard values in IEC 60079-1. Only personnel authorized by Yokogawa Electric Corporation may repair the equipment.
- From the safety point of view, the intrinsically safe circuit of the Field Wireless Access Point model YFGW520 shall be assumed to be connected to earth.

(3) Installation and erection

- See the control drawing.



NOTE

- The equipment must be installed in accordance with IEC 60079-14 and relevant local codes.
- Electrostatic charges on the non-metallic parts (excluding glass parts) or coated parts of the Field Wireless Access Point must be avoided.
- Screws of power supply terminals must be tightened with specified torque values: 1.2 Nm to 1.4 Nm.
- Cable glands and adapters must be of Ex “d” (or “db”) for Ex “d” (or “db”) installations.
- In order to prevent the earthing conductor from loosening, the conductor must be secured to the terminal, tightening the screw with appropriate torque. Care must be taken not to twist the conductor.

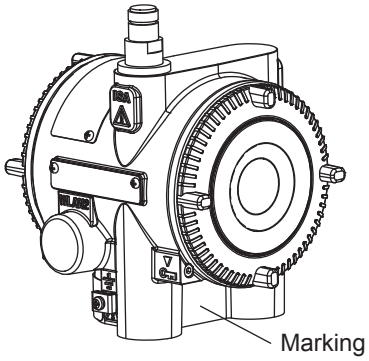
WARNING

- WHEN THE AMBIENT TEMPERATURE IS ≥ 60°C, USE HEAT-RESISTING CABLES AND CABLE GLANDS WITH RATED TEMPERATURES OF ≥ 80°C.

- Electrical Connection
  Cable entry devices suitable for the thread form and the size of the cable entries must be used, according to the following marking on the equipment.
  The type of electrical connection depends on the marking below on YFGW520.

Marking	The type of electrical connection	Note
M	M20 (ISO)	M20 X 1.5
A or N	ANSI 1/2 NPT	1/2-14 NPT

This marking is incused at the back side of the electrical connection block.



F10.ai

(4) Use and setting-up (operation)

- See the control drawing.

WARNING

- Take care not to generate mechanical sparking when access to the instrument and peripheral devices in hazardous area.
- POTENTIAL ELECTROSTATIC CHARGING HAZARD.
  Electrostatic charge may cause an explosion hazard.
  Avoid any actions that cause the generation of electrostatic charge, such as rubbing with dry cloth on coating face of product.

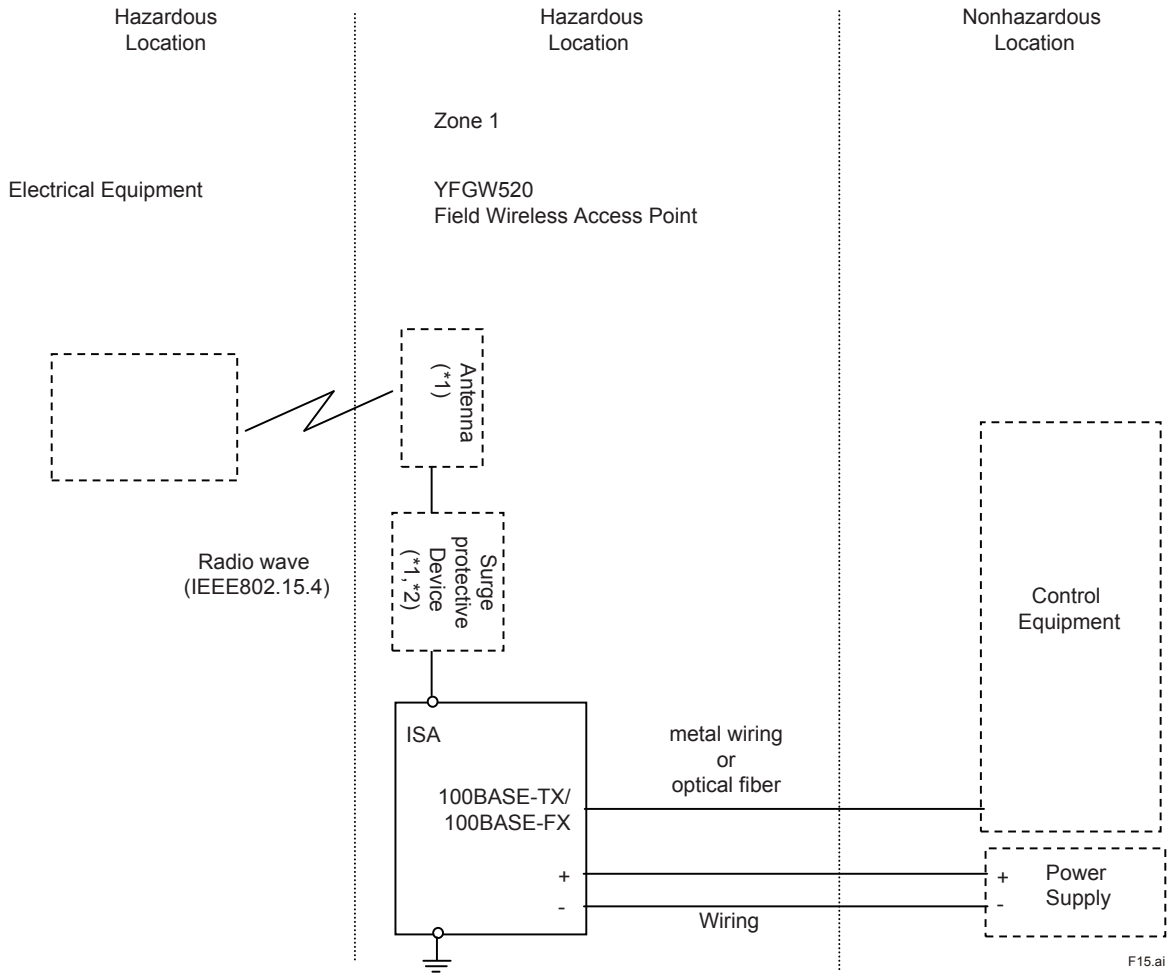
(5) Maintenance and repair

WARNING

- AFTER DE-ENERGIZING, DELAY 1 MINUTE BEFORE OPENING.
- A modification of the equipment would no longer comply with the construction described in the certificate documentation.
- Only personnel authorized by Yokogawa Electric Corporation can repair the equipment.

- When opening the cover, the enclosure should be dry and clean to prevent the ingress of water and dust.

(6) Control drawing



*1: These apparatus are simple apparatus.

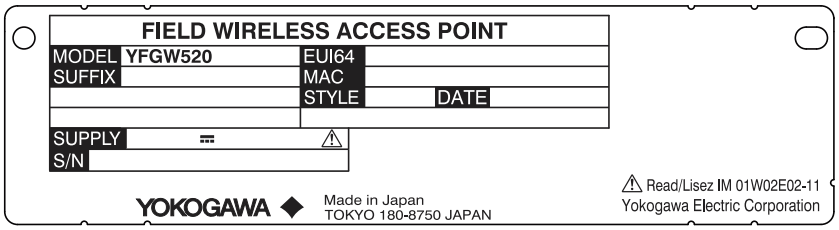
*2: Surge protective Device is not always installed.

NOTE

- The temperature class of the antenna and the surge protective device must be determined in accordance with IEC 60079-14, using Po = 130 mW for ISA antenna connector.
- The following conditions must be met for the connections to ISA
  (total Li of simple apparatuses) + (total Lc) ≤ 0.5 mH
  (total Ci of simple apparatuses) + (total Cc) ≤ 0.09 µF
- The equipment must be earthed in accordance with EN 60079-14, in order to maintain intrinsic safety. A cable lug or a similar device must be used to maintain the secureness of the connection to the equipment. Care must be taken to avoid multi-point earthing since the equipment is not galvanically isolated from the power supply.

(7) Nameplate

- Main name plate for Frameproof type.



F17.ai

MODEL: Specified model code.

SUFFIX: Specified suffix code.

STYLE: Style code.

SUPPLY: Specified supply voltage and wattage.

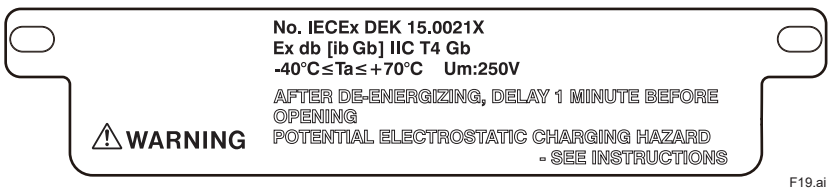
NO.: Serial number and year of production *1.

YOKOGAWA ◆ TOKYO 180-8750 JAPAN:
The manufacturer name and the address *2.

*1: Production year and month are shown as yyyy.mm.
For example, 2015.01 denotes January 2015.

*2: "180-8750" is a zip code which represents the following address.
2-9-32 Nakacho, Musashino-shi, Tokyo Japan

- Hazardous class name plate for Increased safety



F19.ai

Ground Cable Connection

The grounding terminals are located on the inside and outside of the terminal area. Connect the cable to grounding terminal in accordance with wiring procedure 1) or 2).

1) Internal grounding terminal

If the power supply cable is a shielded cable, connect the grounding cable to the ground terminal next to the power supply terminal.

For details of the connection, see C5.1 Power Supply Cable Connection of IM 01W02E02-01EN.

2) External grounding terminal

To connect the grounding cable to YFGW520 directly, use the ground terminal on the right side of the housing.

For details of the connection, see C5.2 Grounding Cable Connection of IM 01W02E02-01EN.

How to Use Manual

It is necessary to install Adobe Acrobat Reader to read the downloaded manual (see "Introduction" in this manual).

Install the following Adobe Reader by the administrator authority.

- Adobe Reader 9.3 or later

TIP

Adobe Reader can be downloaded from the Web site of Adobe Systems Incorporated.

Preparation to Use Setup Tool

To use Setup Tool, any of the following operating systems must have been installed in the PC.

Supported OS*1
Windows 11 Pro / Home

*1: Japanese or English version is supported.

For details on how to install Setup Tool, see User's Manual (IM 01W02E02-01EN)

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Information of User's Manual Revision

Material Name: **YFGW520 Field Wireless Access Point Read Me First**

Material Number: **IM 01W02E02-11EN**

Edition	Date	Page	Revised Item
1st Edition	March 2018		New Issue
2nd Edition	Aug. 2018	— —	Add FCC and ISED compliance Add FM Approvals (United States and Canada)
3rd Edition	Mar. 2019	9 10	Add RPA compliance Add China RoHS
4th Edition	July 2021	7 8 10 11 21, 23 27 31 35	Add (3) and (4) for safety conformity standards. Change the description for (5). Update EU RoHS directive. Update some descriptions of optional specifications. Update applicable standards and marking for ATEX. Change images for the name plates. Update applicable standards and marking for IECEx. Change the name plate image for Frameproof type.
5th Edition	May 2026	2 8 11 38 38 39 46	Add document references. Change due to discontinuation of included DVD-ROM. Change the description for China RoHS. Change due to discontinuation of included DVD-ROM, Correct software requirements. Change due to discontinuation of included DVD-ROM. Change due to discontinuation of included DVD-ROM, Delete about User's Manual. Add open software license terms.
6th Edition	Oct. 2026	8 9 12 22 to 37	Change due to discontinuation of included DVD-ROM. Update laser safety standard references. Add cyber security conformity standard information. Change Type n to Increased Safety for ATEX (/KN27) and IECEx (/SN27). Change Type n to Increased Safety for ATEX (/KN27) and IECEx (/SN27).

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