YOKOGAWA ◆ Doc. No.: AEN010-C07

EU DECLARATION OF CONFORMITY

We: **Yokogawa Electric Corporation**
2-9-32 Nakacho, Musashino-shi, Tokyo, 180-8750 Japan

declare under our sole responsibility that the Products identified as:

System Model	System Name
GM	**Data Acquisition System**

further specified with suffix- and option-codes:

as listed in User's Manual: IM 04L55B01-02EN (Ed.6)
(See Appendix 2 for additional information.)

are in compliance with the EU law and legislation providing for the CE-marking, as listed in Appendix 1.

Information relevant to the conformity and identification of these Products is provided in Appendix 2 and Appendix 3.

Subject products are:
- Produced according to appropriate quality control procedures.
- Provided with the CE-marking as from **2014**.

Signature:

(Manufacturer)

Tokyo, 7 January 2019

Yasuhiro Yoshino
General Manager
Technology Strategy Dept.1
Edge Solutions Division
Product Business Center
IA Products and Service Business HQ
Yokogawa Electric Corporation

(Authorized Representative in the EEA)

Amersfoort, 8 January 2019

Herman van den Berg
President
Yokogawa Europe B.V.
Euroweg 2, 3825 HD Amersfoort,
P.O.Box 163, 3800 AD Amersfoort,
The Netherlands

YEF-HQ internal reference:
EU DoC: GM

Appendix 1

The products are built in compliance with requirements of the following EU Directives and Standards:

When GM contains GM10 without option /C8:

EU Directives and Standards	
EU Directives	Standards
2014/30/EU (EMC)	**EN 61326-1:2013 Class A Table 2** Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements **EN 55011:2009+A1:2010 Class A Group 1** **EN 55011:2016+A1:2017 Class A Group 1** Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement **EN 61000-3-2:2014** Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase) **EN 61000-3-3:2013** Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection
2014/35/EU (LVD)	**EN 61010-1:2010** Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements **EN 61010-2-030:2010** Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-030: Particular requirements for testing and measuring circuits **EN 61010-2-201:2013** Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-201: Particular requirements for control equipment
2011/65/EU (RoHS)	**EN 50581:2012** Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

When GM contains GM10 with option /C8, GM is built in compliance with requirements of the following EU Directives and Standards:

EU Directives and Standards	
EU Directives	Standards
2014/53/EU (RED)	**HEALTH & SAFETY (Art. 3 1. (a)):** **EN 62311:2008** Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) **EN 61010-1:2010** Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 1: General requirements **EN 61010-2-030:2010** Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 2-030: Particular requirements for testing and measuring circuits **EN 61010-2-201:2013** Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-201: Particular requirements for control equipment **EMC (Art. 3 1. (b)):** **EN 301 489-1 V2.1.1** ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU **EN 301 489-17 V3.1.1** ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU **EN 61326-1:2013 Class A Table 2** Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements **EN 55011:2009+A1:2010 Class A Group1** **EN 55011:2016+A1:2017 Class A Group 1** Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement **EN 61000-3-2:2014** Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase) **EN 61000-3-3:2013** Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection **SPECTRUM (Art. 3 2.):** **EN 300 328 V.2.1.1** Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
2011/65/EU (RoHS)	**EN 50581:2012** Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Appendix 2

The Models/Parts in the list below are elements of the GM Data Acquisition System with significant relevance to compliance, as indicated per EU-Directive; their application and use – as described in User's Manual, **IM 04L55B01-02EN** – is supported by this EU Declaration of Conformity.

Indications: *'C' = The accessory conforms to the Directive as a part of the product.*
'R' = The accessory is relevant to the conformity of the product as a part of the product.
'NR' = The accessory is not relevant to the conformity of the product.
'NS' = The accessory does not support the Directive.

Model/Part No.	Model/Parts Name	Relevant EU Directives			
		EMC	LVD	RoHS	RE *1
GM10	Data Acquisition Module	C	NR	C	C
GM90PS	Power Supply Module	C	C	C	C
GM90MB	Module Base	C	NR	C	C
GX90XA *2	Analog input module	C	NR	C	C
GX90XD	Digital input module	C	NR	C	C
GX90YD	Digital output module	C	C	C	C
GX90WD	Digital input & output module	C	C	C	C
GX90XP	Pulse input module	C	NR	C	C
GX90YA	Analog output module	C	NR	C	C
GX90EX	I/O expansion module	C	NR	C	C
GX90UT	PID Control module	C	C	C	C
A1009WD	VDE standard Power cord for Inlet Type maximum rated voltage: 250 V	NR	C	C	C
A1054WD	BS standard Power cord for Inlet Type maximum rated voltage: 250 V	NR	C	C	C
438922	Shunt resistor for Clamp 10Ω	NR	NR	C	NR
438921	Shunt resistor for Clamp 100Ω	NR	NR	C	NR
438920	Shunt resistor for Clamp 250Ω	NR	NR	C	NR
415942	Shunt resistor for Screw 10Ω	NR	NR	C	NR
415941	Shunt resistor for Screw 100Ω	NR	NR	C	NR
415940	Shunt resistor for Screw 250Ω	NR	NR	C	NR
773001	SD card 1GB	C	NR	C	C
IM 04L55B01-02EN	User's Manual	R	R	R	R

***1:** *When GM contains the GM10 with /C8, GM falls into the scope of RE Directive.*

***2**: *The product specific accessory listed below has the customized option for particular customers. This option code is added to the model code of the product specific accessories defined in the User's Manual, **IM 04L55B01-02EN**. This customized specification does not affect to the relevancy to CE-marking compliance of the GM. The additional document for safe use is prepared and complements the standard manuals. This document is delivered with the product specified with relevant option code.*

Model/Parts No. of relevant accessory	*Option code*	*Description*	*Additional Document No.*
GX90XA	*/S1*	*High accuracy option*	*IM GX90XA-S1E*

Appendix 3

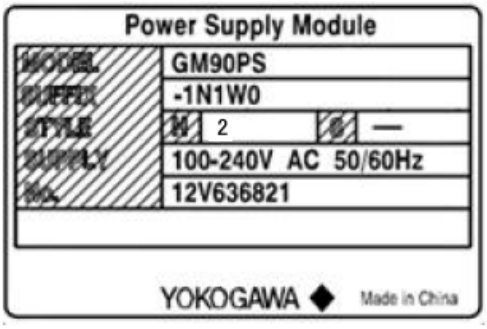
External View of GM

Image of Name plate
(Typical example; details may differ)

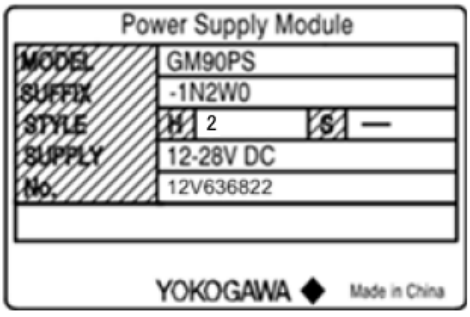
System Nameplate

System Name plate is affixed to Power supply module GM90PS and Data acquisition module GM10.

Nameplate on the module
For 100-240V AC supply



Nameplate on the module
For 12-28V DC supply



-/-