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Cautions When Using Mitsubishi Electric Programmable Controllers or GOTs Connected to a Personal Computer With the RS-232/USB Interface

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■Relevant Models
MELSEC-Q/L/QS/AnS series, MELSEC iQ-R series, GOT-A900/GOT1000/GOT2000 series

Thank you for your continued support of Mitsubishi Electric programmable controllers and Graphic Operation Terminals (GOTs).
For the programmable controllers of the MELSEC-Q/L/QS/AnS series and MELSEC iQ-R series and the GOT-A900/ GOT1000/GOT2000 series, when using the modules equipped with a RS-232/USB interface connected to a personal computer with the RS-232/USB cable, electric shock or failure of the module may occur depending on the personal computer and the conditions of use. To prevent electric shock or failure of the module, observe the following precautions. (Refer to the precautions in the manual of the personal computer as well.)

MITSUBISHI ELECTRIC CORPORATION

1   MATTERS TO BE OBSERVED

When connecting the modules equipped with a RS-232/USB interface[*1] to a personal computer, follow the personal computer manual and observe the following precautions.

*1   For the relevant models, refer to the following.
☞Page 4 RELEVANT MODEL

1.1   When Using a Personal Computer With an AC Power Supply

This chapter describes the precautions when a personal computer is used with an AC power supply.

When using a personal computer with a three-prong plug or a plug with a ground wire

Use a grounded outlet or ground the ground wire securely. Ground the personal computer, programmable controller, and GOT with a ground resistance of 100Ω or less.

When using a personal computer with a two-prong plug without a ground wire

Follow the procedures described below to connect the module to the personal computer. In addition, supply the power to the personal computer and the programmable controller or GOT from the same power supply system.

■**When connecting a personal computer to the module**

1. Unplug the power plug of the personal computer from the AC outlet.

2. Confirm that the power plug is unplugged, and then, connect the RS-232/USB cable of the module to the personal computer.

3. Plug the power plug of the personal computer to the AC outlet.

■**When connecting an extension cable or GOT bus connection cable to the personal computer**

1. Unplug the power plugs of all personal computers that connect to the target module from the AC outlet.

2. Confirm that the power plugs of all personal computers are unplugged, and then, connect the extension cable or GOT bus connection cable to the personal computer.

3. Plug the power plug of the personal computer to the AC outlet.

Precautions

Using the module without the above precautions not followed may result in electric shock or failure of the programmable controller module of the MELSEC-Q/L/QS/AnS series or MELSEC iQ-R series, GOT, bus connection board, or bus connection module.

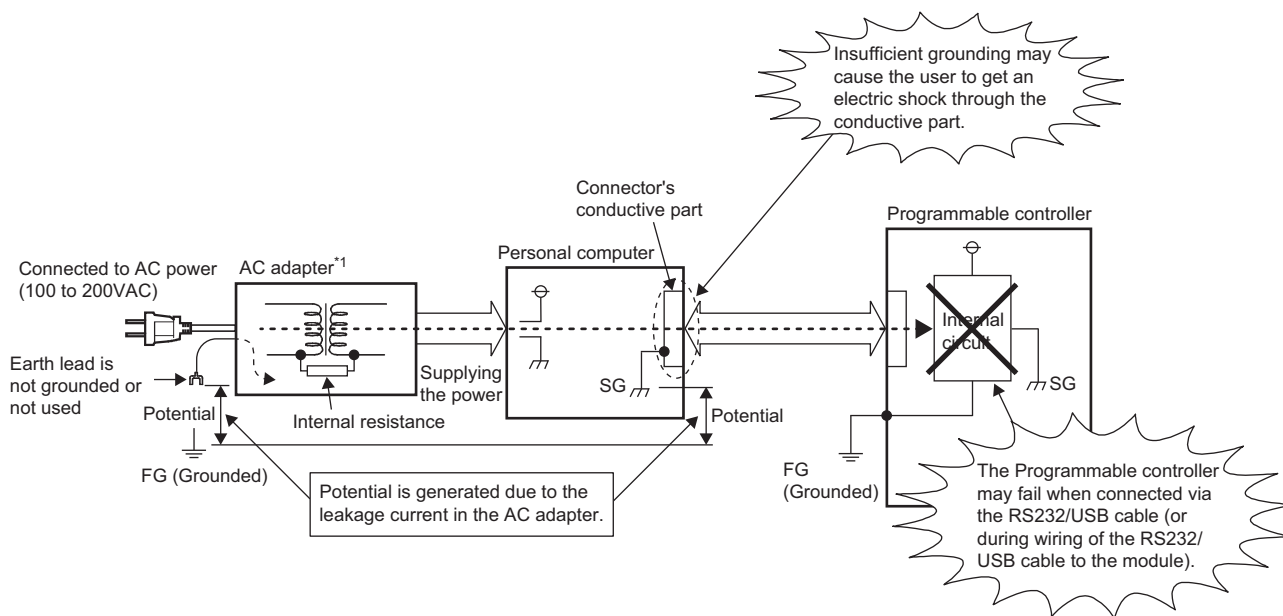## 1.2   When Using a Personal Computer With a Battery Supply

When a personal computer is used with a battery supply, there are no special precautions.

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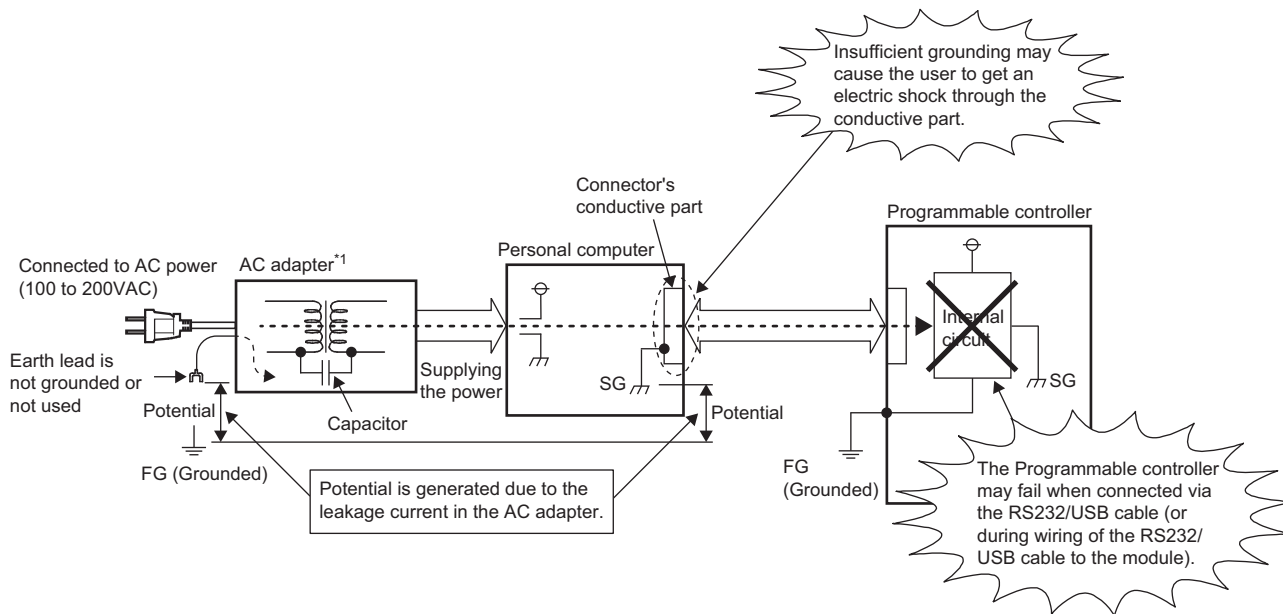## 1.3 Example of a connection that may result in electric shock or failure of the module

An example of a connection that may result in electric shock or failure of the module is shown below.

• Example 1

*1   When a desktop computer is used, the power supply in the computer corresponds to this case.

• Example 2

*1   When a desktop computer is used, the power supply in the computer corresponds to this case.

2   RELEVANT MODEL

The models connected to a personal computer with the RS-232/USB interface correspond to this case. The following table lists the relevant models. When connecting the models to a personal computer, observe the precautions in this bulletin.

Type	Product	Model
MELSEC-Q series	CPU module	All models
	Motion CPU module	All models
	C Controller module	All models
	MELSECNET/H remote module	QJ72LP25-25, QJ72LP25G, QJ72BR15
	Serial communication module	QJ71C24, QJ71C24-R2, QJ71C24N, QJ71C24N-R2
	MODBUSinterface module	QJ71MB91
	Web server module	QJ71WS96
	Intelligent communication module	QD51, QD51-R24
MELSEC-L series	CPU module	All models
	Serial communication module	LJ71C24, LJ71C24-R2
	CC-Link IE Field Network head module	LJ72GF15-T2
	SSCNETⅢ/H head module	LJ72MS15
	RS-232 adapter	L6ADP-R2
MELSEC-QS series	CPU module	All models
MELSEC-AnS series	AnS-Q module conversion adapter	A1SADP-Q-SET1, A1SADP-Q-SET2
CC-Link	RS-232 interface module	AJ65BT-R2, AJ65BT-R2N
MELSEC iQ-R series	CPU module	All models
	Serial communication module	RJ71C24, RJ71C24-R2
	CC-Link IE Field Network remote head module	RJ72GF15-T2
GOT-A900 series[*1][*2]	A985GOT	A985GOT-TBA-V, A985GOT-TBD-V, A985GOT-TBA, A985GOT-TBD, A985GOT-TBA-EU
	A975GOT	A975GOT-TBA-B, A975GOT-TBD-B, A975GOT-TBA, A975GOT-TBD, A975GOT-TBA-EU
	A970GOT	A970GOT-TBA-B, A970GOT-TBD-B, A970GOT-TBA, A970GOT-TBD, A970GOT-TBA-EU, A970GOT-SBA, A970GOT-SBD, A970GOT-SBA-EU, A970GOT-LBA, A970GOT-LBD, A970GOT-LBA-EU
	A960GOT	A960GOT-EBA, A960GOT-EBD, A960GOT-EBA-EU
	A956WGOT	A956WGOT-TBD
	A956GOT	A956GOT-TBD, A956GOT-TBD-M3, A956GOT-SBD(-B), A956GOT-SBD-M3(-B), A956GOT-LBD, A956GOT-LBD-M3
	A953GOT	A953GOT-TBD, A953GOT-TBD-M3, A953GOT-SBD(-B), A953GOT-SBD-M3(-B), A953GOT-LBD, A953GOT-LBD-M3
	A951GOT	A951GOT-QTBD, A951GOT-QTBD-M3, A951GOT-QSBD(-B), A951GOT-QSBD-M3(-B), A951GOT-QLBD, A951GOT-QLBD-M3
GOT1000 series[*1][*3]	GT16 series	All models
	GT15 series	All models
	GT14 series	All models
	GT11 series	All models
	GT10 series	All models
GOT2000 series[*1][*3]	GT27 series	All models
	GT25 series	All models
	GT21 series	All models

*1   The models connected with a programmable controller MELSEC-Q series using BUS or RS-232 interface correspond to this case.

*2   Models to be discontinued.

*3   The models connected with a programmable controller MELSEC-L series using the RS-232 interface correspond to this case.

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REVISIONS

Version	Date of Issue	Revision
A	May 2020	First edition

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