User's Manual

Handling of the CompactFlash and Adapter

Foreword

This user's manual explains proper handling of the compact flash card and adapter, and lists their specifications. To ensure correct use, please read this manual thoroughly before beginning operation.

Notes

- The contents of this manual are subject to change without prior notice as a result ofcontinuing improvements to the instrument's performance and functions.
- Every effort has been made in the preparation of this manual to ensure the accuracyof its contents. However, should you have any questions or find any errors, pleasecontact your nearest YOKOGAWA representative, dealer, or sales office.
- Copying or reproducing all or any part of the contents of this manual without thepermission of Yokogawa Electric Corporation is strictly prohibited.
- Yokogawa does not warrant, for any reason, damaged or lost data recorded on theCompactFlash card. Be sure to back up all data as needed.

Trademarks

- CompactFlash is a registered trademark of Sundisk Corporation in the USA, andlicensed from the CFA (Compact Flash Association)
- For purposes of this manual, the ™ and ® symbols do not accompany their respectivetrademark names or registered trademark names
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Models

If any of the contents are incorrect, missing, or appear to be abnormal, please contact yourYokogawa dealer or representative. Also check that all items match the ones you ordered.

Model	Name	Capacity
772090	Compact Flash Adapter	–
772093	Compact Flash Card	512MB
772094	Compact Flash Card	1GB
772095	Compact Flash Card	2GB

CAUTION

Regarding the CompactFlash Card
- Do not store or use the CompactFlash card in areas where static electricity,electrical discharge, or electrical noise occurs. Electric shock or fire can result.
- Do not disassmeble or rework the CompactFlash card. Fire can result.

Regarding the CompactFlash Card and Adapter
- Do not apply physical shock to the CompactFlash card or adapter. Doing socan lead to malfunction.
- Do not cut the power, apply vibration or shock to the card, or pull the card out while datais being read from or written to the card. Doing so can damage or erase the data.
- Do not use the CompactFlash card or adapter for any product other than theintended Yokogawa instrument. Correct functioning cannot be guaranteed.
- When inserting the CompactFlash card or adapter, make sure the card isoriented correctly (face up or down), and then insert it firmly into the instrument.If not inserted correctly, the card will not be recognized.
- Also, never touch the CompactFlash card with wet hands. Electric shock ordamage can result.
- Do not use the CompactFlash card if it is dirty or dusty. Electric shock ordamage can result.

Features of the Compact Flash Card

CompactFlash Specification Compliance
- Runs on a single 3.3 V/5 V power supply
- 50-pin, 2-piece connector, Type I (3.3 mm thick)
- 256 byte attribute memory

Interface
- PC card memory mode
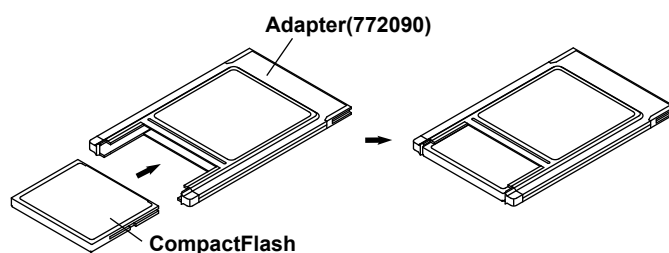- PC card I/O mode
- True IDE mode

Performance
- Burst data transfer rate (Drive-Host): max 66.6 mB/sec (Theoretically)
- Sustained write: max 18 MB/sec (512MB, 1GB), 42MB/sec (2GB)
- Sustained read: max 22 MB/sec (512MB, 1GB), 42MB/sec (2GB)

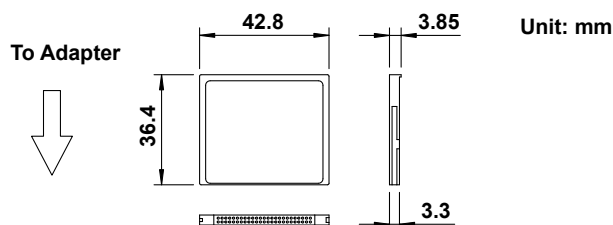### No. of write/delete operations: 100000

Adapter Features

By inserting the compact flash card as in the figure below, the compact flash card can be used as a Type II PC card. Make sure the card is oriented properly when inserting it into the adapter.

Adapter(772090)

CompactFlash

Compact Flash Specifications

Dimensions of card:

To Adapter

42.8   3.85   Unit: mm

36.4   3.3

Operating voltage: 3.3 V ± 5%
                     5.0 V ± 10%

Current consumption:
- 5 V during operation (at the Ultra DMA mode 4)

operation	512MB	1GB	2GB	Unit
Read	68.8	68.4	100.6	mA (Typ.)
Write	67.2	66.6	86.2	mA (Typ.)
Idle	8.6	8.7	8.9	mA (Typ.)

- 3.3 V during operation (The table below is a value at Ultra DMA mode 4.)

operation	512MB	1GB	2GB	Unit
Read	52.6	52.6	78.9	mA (Typ.)
Write	56.9	57.1	76.2	mA (Typ.)
Idle	1.4	1.4	1.4	mA (Typ.)

Operating Environment
- Operating temperature: - 40°C to 85°C
- Operating humidity: 85% or less (no condensation)
- Storage temperature: - 45°C to 90°C
- Storage humidity: 95% or less (no condensation)