

# F650-CK

CC-Link I/F

## OPERATION MANUAL

25NOV2014REV.1.05

**UNIPULSE**

# Introduction

The F650-CK is a remote device station supporting CC-Link Ver.2.00.

The following functions are supported in CC-Link Ver.2.

- Extended cyclic conveyance
- Long easing of inter-station cables

If CC-Link I/F is used, the F650-CK can be directly controlled from PLC and wiring will be greatly reduced.

Basic knowledge of PLC and CC-Link I/F is required prior to reading.

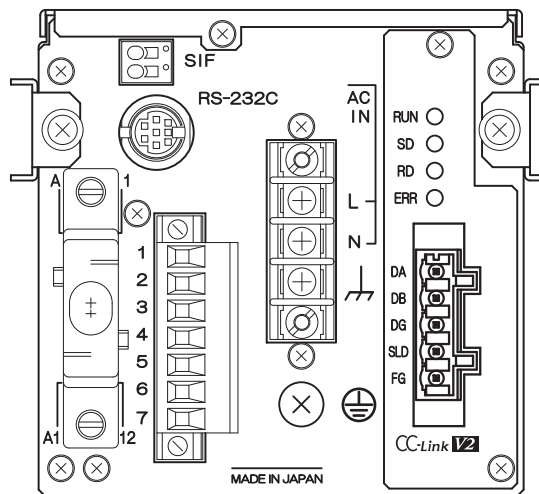
Refer to specialized materials regarding basic knowledge of CC-Link I/F.

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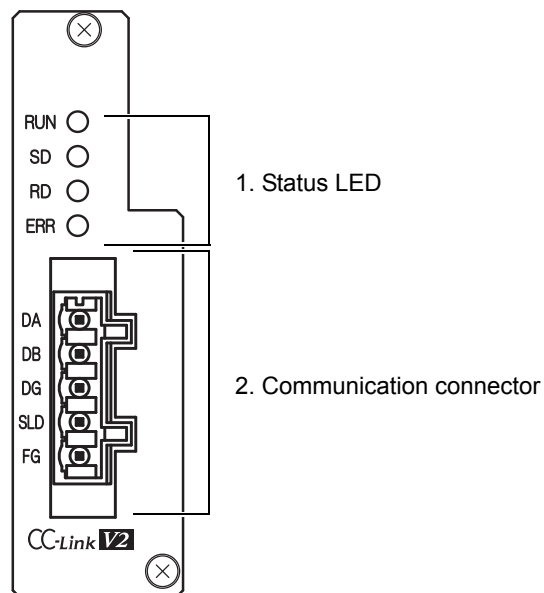
# 1. Appearance Descriptions

## 1-1. F650-CK with CC-Link I/F



# 2. Name of Each Part

## 2-1. CC-Link I/F



- |                            |   |
|----------------------------|---|
| 1. Status LED              | Displays the status of communication.<br>(Refer to "5.Status LED" on page 3.)         |
| 2. Communication connector | Connector for CC-Link interface.<br>(Refer to "4.Communication Connector" on page 2.) |

## 3. F650-CK Setting

### Operation

[MODE] → [OPTION]

- Occupied station (Initial value: 2 stations)    1 station (Ver.1), 2 stations (Ver.1),  
1 station 2 times (Ver.2).

Set the numbers of occupied stations as the remote device for F650-CK.

Address map will be changed according to the numbers of stations.



- When the F650-CK is set to 1 station or 2 stations, both remote net Ver.1 and 2 can be used for CC-Link master mode. Also, set the station type as Ver.1 remote device station.
- When the F650-CK is set to 1 station 2 times, set CC-Link master mode to remote net Ver.2. Also, set the station type as Ver.2 remote device station.

- Baud rate (Initial value: 10M)    156k, 625k, 2.5M, 5M, 10M

Deciding communication speed.

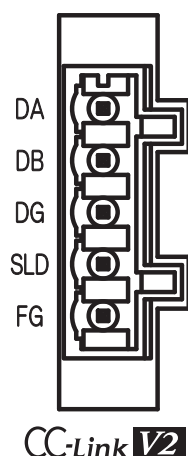
- Station number (Initial value: No.1)    No.1 to 64 (when 1 station, 1 station 2 times setting)  
No.1 to 63 (when 2 stations)

Setting slave station number.

- Wgt select code (Initial value: Extinput)    Network, Extinput

Selecting to indicate the weighing code of F650-CK whether by extinput (extinput) or CC-Link (network).

## 4. Communication Connector



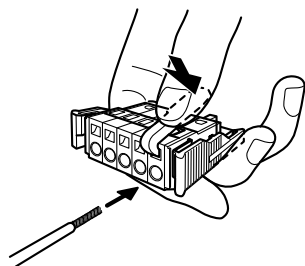
Each abbreviation of signal line represents each signal type as follows: SLD and F.G. are connected inside.

Suitable plug for the connection is the plug made by WAGO CO., Ltd. or equivalent one. (Accessories)

「721-105/037-000」

Name	Signal type
DA	Signal line DA side
DB	Signal line DB side
DG	Signal line ground
SLD	Shield
FG	Frame ground

## Operating method



- Pick up the plug and operate the lever with a thumb.
- For the protection from the damage, do not operate the lever without removing the plug.



## Notice

When the F650-CK is a unit at both ends, terminator resistance must be installed. (Confirm with the CC-Link specifications.) At this time, when the DA and DB signal lines and resistance are to be connected to the connector, be aware that poor contact may result if the nipping conditions differ between the leg of the resistance and signal lines. There is a possibility of abnormal operation.

## 5. Status LED

LED expresses the status of communication.

Name of LED	Light ON	Light OFF
RUN	- Normal	- Reset action - No communication
SD	- Transmitting	— — — — —
RD	- Receiving	— — — — —
ERR	- Setting error - CRC error - Fault	- Normal

## 6. Sequencer Address

F650-CK enables to change the numbers of occupied stations by its setting.

Ensure that station numbers do not overlap when occupying multiple stations.

CC-Link Ver.1 and 2 can be switched over based on the setting of the occupied station.

### For Ver.1

Within the master station, addresses allotted to remote stations change based on station number.

Example)

Station number	Remote input	Remote output	Remote register	
			M→R	R→M
1	RX0000	RY0000	RWw0000	RWr0000
	00E0H	0160H	01E0H	02E0H
2	RX0020	RY0020	RWw0004	RWr0004
	00E2H	0162H	01E4H	02E4H
3	RX0040	RY0040	RWw0008	RWr0008
	00E4H	0164H	01E8H	02E8H
4	RX0060	RY0060	RWw000C	RWr000C
	00E6H	0166H	01ECH	02ECH

First (2 stations)

Second (1 station)

Third

### For Ver.2

Within the master station, addresses allotted to remote stations differ based on the occupied station of the connected devices and extended cyclic setting (scale factor).

Example)

Station number	Remote input	Remote output	Remote register	
			M→R	R→M
1	RX0000	RY0000	RWw0000	RWr0000
			4400H	4C00H
	4000H	4200H	RWw0004	RWr0004
			4404H	4C04H
2	RX0020	RY0020	RWw0008	RWr0008
	4002H	4202H	4408H	4C08H
3	RX0040	RY0040	RWw000C	RWr000C
	4004H	4204H	440CH	4C0CH

First (1 station  
2 times)

Second (1 station)

Third

## 7. Address Map

### 7-1. Data domain

#### 7-1-1. Remote resister M → R (Mitsubishi PLC → F650-CK)

When occupied station is set as 2 stations or 1 station 2 times (When H, L comparison mode)

Address	Contents		
	MSB		LSB
RWw n+0H RWw n+1H	Standard	L 32bit H	Exclusive data area
RWw n+2H	Over	16bit	
RWw n+3H	Under	16bit	
RWw n+4H RWw n+5H	General purpose data area		L 32bit H
RWw n+6H	Undefined	Command No.	8bit
RWw n+7H	Undefined	Operation mode	8bit

When occupied station is set as 2 stations or 1 station 2 times (When rank division mode)

Address	Contents		
	MSB		LSB
RWw n+0H RWw n+1H	Upper	L 32bit H	Exclusive data area
RWw n+2H RWw n+3H	Lower	L 32bit H	
RWw n+4H RWw n+5H	General purpose data area		L 32bit H
RWw n+6H	0	Command No.	8bit
RWw n+7H	0	Operation mode	8bit

When occupied station is set as 1 station

Address	Contents		
	MSB		LSB
RWw n+0H RWw n+1H RWw n+2H RWw n+3H	Undefined		64bit

M: Master

R: Remote



### 7-1-2. Explanation for remote register M → R

#### ◎ Exclusive data area (2 stations, 1 station 2 times)

When registering each setting value using request flag 1, data is set in each area.

- Standard (32 bit binary) (0 to 99999)

Standard value is set.

- Over (16 bit binary) (0 to 9999)

Over value is set.

- Under (16 bit binary) (0 to 9999)

Under value is set.

- Upper (32 bit binary) (0 to 99999)

Upper limit value is set.

- Lower (32 bit binary) (0 to 99999)

Lower limit value is set.

#### ◎ General purpose data area (32 bit binary) (-99999 to 99999)

Used when command and data are set using request flag 2.

Minus when the highest bit is one and plus data when 0.

#### ◎ Command No. (8 bit binary) (0 to 255)

Command No. is set. Be aware that the request flag 2 does not respond to a invalid command. Upper byte is ignored.

Movement directive is displayed if 0 is set.

#### ◎ Operation mode (8 bit binary) (0 to 255)

This function is prepared for further expansion.

\* When a value larger than the maximum setting range value is set, the maximum value is deemed to be set.

**7-1-3. Remote resister R → M (F650-CK → Mitsubishi PLC)**

When occupied station is set as 2 stations or 1 station 2 times

Address	Contents	
	MSB	LSB
RWw n+0H RWw n+1H	Indicated value (Indicate/Latest result) 32bit L H	
RWw n+2H RWw n+3H	0 0	Error code Error assistance code 8bit 8bit
RWw n+4H RWw n+5H	General purpose data area 32bit L H	
RWw n+6H RWw n+7H	0 0	Command No. (Response) Operation mode (Response) 8bit 8bit

When occupied station is set as 1 station

Address	Contents	
	MSB	LSB
RWw n+0H RWw n+1H	Indicated value (Indicate/Latest result) 32bit L H	
RWw n+2H RWw n+3H	0 0	Error code Error assistance code 8bit 8bit

M: Master

R: Remote

**7-1-4. Explanation for remote resister R → M****◎ Indicated value (Indicate/Latest result) (32 bit binary) (-99999 to 99999)**

Indicated value is displayed. Negative expression is to be given by twos-complement numbering system.

The latest result is shown when remote output RY(n+1)F is ON, and the weight value being displayed is shown when OFF. (2 stations)

The latest result is shown when remote output RYn7 is ON, and the weight value being displayed is shown when OFF. (1 station, 1 station 2 times)

**◎ Error code (8 bit binary) (0 to 255)**

Indicator error code is displayed.

0: No error  
1: Weight error  
Other values: Undefined

**◎ Error assistance code (8 bit binary) (0 to 255)**

Indicator error status flag is displayed using an error code and error assistance code.

0: No error  
1: Indicates + LOAD.  
2: Indicates -LOAD.  
3: Indicates NET OVER.  
4: Indicates GROSS OVER.  
Other values: Undefined

◎ **General purpose data area (32 bit binary) (-99999 to 99999)**

When data is read using the request flag 2, the specified setting value is set.

◎ **Command No. (response) (8 bit binary) (0 to 255)**

When command is set using request flag 2, the same data is set here.

◎ **Operation mode (response) (8 bit binary) (0 to 255)**

This function is prepared for further expansion.

### 7-1-5. Command list for request flag 2

The value to be set in the general purpose data area when command is given using request flag 2 is indicated.

Writing setting value and operation command (R/W relay OFF)

Writing setting value and operation command		Command No. (RWw n6)	General purpose data area (RWw n4 to n5)
Standard	For each code No.	01	0 to 99999
Over		02	0 to 9999
Under		03	0 to 9999
Upper		04	0 to 99999
Lower		05	0 to 99999
Boundary 0		06	0 to 99999
Boundary 1		07	0 to 99999
Boundary 2		08	0 to 99999
Boundary 3		09	0 to 99999
Boundary 4		10	0 to 99999
Boundary 5		11	0 to 99999
Boundary 6		12	0 to 99999
Boundary 7		13	0 to 99999
Boundary 8		14	0 to 99999
Boundary 9		15	0 to 99999
Taking mode		16	0 to 4
Trigger mode		17	0 to 1
Taking count		18	1 to 5000
Taking ratio		19	0 to 5
Empty count		20	0 to 5000
Near zero		21	0 to 99999
Digital low pass filter		22	20 to 100
Moving average filter		23	1 to 999
Gross ratio		24	1 to 9999
Histogram target		25	5 to 99994
Histogram range		26	5 to 9999
Undefined (for future extension)		27	0

## Writing setting value and operation command (R/W relay OFF)

Output selection 0	For each code No.	28	0 to 8
Output selection 1		29	0 to 8
Output selection 2		30	0 to 8
Output selection 3		31	0 to 8
Output selection 4		32	0 to 8
Undefined (for future extension)		33	0
Graphic mode		34	0 to 3
Trigger level		35	0 to 99999
X end point		36	2 to 998
Y start point		37	$\pm 0$ to $\pm 99999$
Y end point		38	$\pm 0$ to $\pm 99999$
Drawing weight selection		39	0 to 1
Pre trigger value		40	0 to 20
Front of filter		41	0 to 1
Comparison mode selection		49	0 to 2
Standard comparison selection		50	0 to 1
Complete output time		51	0 to 999
Near zero comparison selection		52	0 to 1
HI/LO limit comparison selection		53	0 to 1
Tare setting selection		54	0 to 1
Preset tare value		55	0 to 99999
Hold select		56	0 to 2
Undefined (for future extension)		57	0
Motion detection period		58	0 to 999
Motion detection range		59	0 to 99
Zero tracking period		60	0 to 99
Zero tracking range		61	0 to 99
Indicate color		62	0 to 3
Backlight low time		63	0 to 99
Backlight on time		64	0 to 99
Auto accumulation		65	0 to 1
Output mode		66	0 to 1
Output comparison mode		67	0 to 1
Weighing code input		68	0 to 1
Zero tracking mode		69	0 to 1
Language ( 言語 )		73	0 to 1
[GROSS/NET] key		74	0 to 1
[DZ] key		75	0 to 1
[TARE ON] key		76	0 to 1
Balance weight		77	1 to 99999
Minimum scale division		78	1 to 100
Net over		79	0 to 99999
Gross over		80	0 to 99999
Unit display		81	0 to 5
Decimal place		82	0 to 5

## Writing setting value and operation command (R/W relay OFF)

DZ regulation value	83	0 to 9999
Auto zero average	84	0 to 3
SI/F out1 select	85	0 to 4
SI/F out2 select	86	0 to 4
B4 terminal function selection	87	0 to 1
Taking speed	88	0 to 1
Result switch	0	10
Error switch	0	11
Net weight switch	0	12
Gross weight switch	0	13
Tare subtraction (TARE ON)	0	14
Tare subtraction reset (TARE OFF)	0	15
Digital zero (DZ ON)	0	16
Digital zero reset (DZ OFF)	0	17
Accumulation command	0	24
Accumulation clear of weighing code	0	25
Accumulation clear of all codes	0	26
Measurement start	0	30
Measurement reset	0	31

## Reading out setting value and operation command (R/W relay ON)

Reading setting value and operation command		Command No. (RWw n6)
Standard	For each code No.	01
Over		02
Under		03
Upper		04
Lower		05
Boundary 0		06
Boundary 1		07
Boundary 2		08
Boundary 3		09
Boundary 4		10
Boundary 5		11
Boundary 6		12
Boundary 7		13
Boundary 8		14
Boundary 9		15
Taking mode		16
Trigger mode		17
Taking count		18
Taking ratio		19
Empty count		20
Near zero		21

## Reading out setting value and operation command (R/W relay ON)

Digital low pass filter	For each code No.	22
Moving average filter		23
Gross ratio		24
Histogram target		25
Histogram range		26
Undefined (for future extension)		27
Output selection 0		28
Output selection 1		29
Output selection 2		30
Output selection 3		31
Output selection 4		32
Undefined (for future extension)		33
Graphic mode		34
Trigger level		35
X end point		36
Y start point		37
Y end point		38
Drawing weight selection		39
Pre trigger value		40
Front of filter		41
Average weight (read only)		42
Maximum weight (read only)		43
Minimum weight (read only)		44
Count of data (read only)		45
General standard deviation (read only)		46
Sample standard deviation (read only)		47
Maximum - Minimum (read only)		48
Comparison mode selection		49
Standard comparison selection		50
Complete output time		51
Near zero comparison selection		52
HI/LO limit comparison selection		53
Tare setting selection		54
Preset tare value		55
Hold select		56
Undefined (for future extension)		57
Motion detection period		58
Motion detection range		59
Zero tracking period		60
Zero tracking range		61
Indicate color		62
Backlight low time		63
Backlight on time		64
Auto accumulation		65
Output mode		66

## Reading out setting value and operation command (R/W relay ON)

Output comparison mode	67
Weighing code input	68
Zero tracking mode	69
LOCK1 (read only)	70
LOCK2 (read only)	71
LOCK3 (read only)	72
Language ( 言語 )	73
[GROSS/NET] key	74
[DZ] key	75
[TARE ON] key	76
Balance weight	77
Minimum scale division	78
Net over	79
Gross over	80
Unit display	81
Decimal place	82
DZ regulation value	83
Auto zero average	84
SI/F out1 select	85
SI/F out2 select	86
B4 terminal function selection	87
Taking speed	88

## 7-2. Address map (relay domain)

### 7-2-1. Remoto output (Mitsubishi PLC → F650-CK)

When occupied station is set as 2 stations

Address	Contents		Class
RY n0	Request flag1		Communication
RY n1			
RY n2	Request flag2		Used for communication with host.
RY n3	R/W		
RY n4	Request flag3		
RY n5			
RY n6			
RY n7			
RY n8			
RY n9			
RY nA			
RY nB			
RY nC			
RY nD			
RY nE			
RY nF			
RY (n+1)0	Digital zero		
RY (n+1)1	Digital zero reset		
RY (n+1)2	Tare subtraction		
RY (n+1)3	Tare subtraction reset		
RY (n+1)4			
RY (n+1)5	Net weight switch		
RY (n+1)6	Gross weight switch		
RY (n+1)7			
RY (n+1)8	Accumulation command		
RY (n+1)9	Accumulation clear		
RY (n+1)A			
RY (n+1)B			
RY (n+1)C			
RY (n+1)D	Measurement start		
RY (n+1)E	Measurement reset		
RY (n+1)F	Indicated value selection		
RY (n+2)0	Weighing code No.	1	Enabled only when weighing code selection is "network".
RY (n+2)1		2	
RY (n+2)2		4	
RY (n+2)3			
RY (n+2)4			
RY (n+2)5			
RY (n+2)6			
RY (n+2)7			
RY (n+2)8	Setting code No.	1	Enabled at all times.
RY (n+2)9		2	
RY (n+2)A		4	
RY (n+2)B			
RY (n+2)C			
RY (n+2)D			
RY (n+2)D			
RY (n+2)F			
RY (n+3)0	:		:
:	:		:
RY (n+3)F	:		:



When occupied station is set as 1 station or 1 station 2 times

Address	Contents		Class
RY n0	(Request flag1)		Flags in brackets are enabled only when 1 station 2 times is set.
RY n1			
RY n2	(Request flag2)		
RY n3	(R/W)		
RY n4	(Request flag3)		
RY n5			
RY n6			
RY n7			
RY n8	Digital zero		
RY n9	Digital zero reset		
RY nA	Tare subtraction		
RY nB	Tare subtraction reset		
RY nC			
RY nD	Accumulation command		
RY nE	Accumulation clear		
RY nF	Indicated value selection		
RY (n+1)0	Weighing code No.	1	Enabled only when weighing code selection is "network".
RY (n+1)1		2	
RY (n+1)2		4	
RY (n+1)3			
RY (n+1)4			
RY (n+1)5			
RY (n+1)6			
RY (n+1)7			
RY (n+1)8			
RY (n+1)9			
RY (n+1)A			
RY (n+1)B			
RY (n+1)C			
RY (n+1)D			
RY (n+1)E			
RY (n+1)F			

## 7-2-2. Remote input (F650-CK → Mitsubishi PLC)

When occupied station is set as 2 stations

Address	Contents		Class	
RX n0	Reguest flag 1 response		Communication  Used for communication with host.	
RX n1				
RX n2	Reguest flag 2 response			
RX n3	R/W (response)			
RX n4	Reguest flag 3 response			
RX n5				
RX n6	CPU normal operation			
RX n7				
RX n8	Decimal place 0			
RX n9	Decimal place 1			
RX nA	Decimal place 2			
RX nB				
RX nC				
RX nD				
RX nE				
RX nF				
RX (n+1)0	Near zero			Ranks in brackets are enabled only when RANK.1 or RANK.2.
RX (n+1)1	Over (RANK1)			
RX (n+1)2	Go (RANK2)			
RX (n+1)3	Under (RANK3)			
RX (n+1)4	(RANK4)			
RX (n+1)5	(RANK5)			
RX (n+1)6	(RANK6)			
RX (n+1)7	(RANK7)			
RX (n+1)8	(RANK8)			
RX (n+1)9	(RANK9)			
RX (n+1)A	Upper (RANK10)			
RX (n+1)B	Lower (RANK11)			
RX (n+1)C	Complete			
RX (n+1)D	Stable			
RX (n+1)E	Taking			
RX (n+1)F	Weight error			
RX (n+2)0	Weighing code No.	1	Enabled at all times.	
RX (n+2)1		2		
RX (n+2)2		4		
RX (n+2)3				
RX (n+2)4				
RX (n+2)5				
RX (n+2)6				
RX (n+2)7				
RX (n+2)8	Setting code No.	1		
RX (n+2)9		2		
RX (n+2)A		4		
RX (n+2)B				
RX (n+2)C				
RX (n+2)D				
RX (n+2)E				
RX (n+2)F				
RX (n+3)0				
⋮	⋮			⋮
RX (n+3)A	Error status flag			
RX (n+3)B	Remote ready			
⋮	⋮		⋮	
RX (n+3)F				

When occupied station is set as 1 station or 1 station 2 times

Address	Contents	Class
RX n0	(Request flag 1 response)	Flags in brackets are enabled only when 1 station 2 times is set.
RX n1		
RX n2	(Request flag 2 response)	
RX n3	(R/W (response))	
RX n4	(Request flag 3 response)	
RX n5		
RX n6	CPU normal operation	
RX n7		
RX n8	Near zero	
RX n9		
RX nA	Upper	
RX nB	Lower	
RX nC	Complete	
RX nD	Stable	
RX nE	Taking	
RX nF	Weight error	
RX (n+1)0		
RX (n+1)1		
RX (n+1)2		
RX (n+1)3		
RX (n+1)4		
RX (n+1)5		
RX (n+1)6		
RX (n+1)7		
RX (n+1)8		
RX (n+1)9		
RX (n+1)A	Error status flag	
RX (n+1)B	Remote ready	
RX (n+1)C		
RX (n+1)D		
RX (n+1)E		
RX (n+1)F		

**7-2-3. RY (Mitsubishi PLC → F650-CK) signal**

Signal name	Signal meaning
Request flag 1	During write setting value into exclusive data area, the output signal is ON, after receiving request flag 1 response, the signal goes OFF.
Request flag 2	During write command into general purpose data area, the output signal is ON, after receiving request flag 2 response, the signal goes OFF.
R/W	Read out command or write command into general purpose data area is decided by ON / OFF of the output signal. Signal is ON → Read while OFF → Write. READ: Read out various Setting value from the indicator. WRITE: Write various Setting value and give the operation command to F650-CK.
Request flag 3	This function is for the expansion. The operation mode is switched by ON edge.
Digital zero	The gross weight is zeroed by ON edge.
Digital zero reset	Digital zero is reset by ON edge.
Tare subtraction	Tare subtraction is performed by ON edge.
Tare subtraction reset	Tare subtraction is reset by ON edge.
Net weight switch	The display is changed to net by ON edge.
Gross weight switch	The display is changed to gross by ON edge.
Accumulation command	The weight value is accumulated by ON edge. Accumulated to the codes being weighed (weighing code). Moreover, prints to UNIPULSE printer connected with SI/F.
Accumulation clear	Accumulated values are cleared. The codes being weighed (weighing code) are cleared.
Measurement start	Turns to measurement start signal by ON edge.
Measurement reset	Turns to measurement reset signal by ON edge.
Indicated value selection	The latest result is displayed by ON. * 0 when power is supplied. The weight value is displayed by OFF. * Net/gross is subject to the display of the indicator.
Weighing code	Enabled only when the weighing code selection setting of the F650-CK is "network". Set the weighing code in 3 bits.
Setting code	Set the setting code in 3 bits.

**7-2-4. RX (F650-CK → Mitsubishi PLC ) signal**

Signal name	Signal meaning
Request flag 1 response	After setting value was written into exclusive data area, input signal is ON, while confirmed request flag 1 output signal went OFF, it goes OFF.
Request flag 2 response	After command was written into general purpose data area, input signal is ON, while confirmed request flag 2 output signal went OFF, it goes OFF.
R/W (response)	When request flag 2 response signal goes ON, the R/W response signal goes the same status as R/W output signal.
Request flag 3 response	This function is for the expansion. After operation mode was switched, input signal is ON, while confirmed request flag 3 output signal went OFF, it goes OFF.
CPU normal operation	The signal is reversed between ON and OFF at approx. 1 second interval in normal operation.
Decimal place 0 Decimal place 1 Decimal place 2	Indicates decimal place of weight value with one of 3 points of binary value. 0: #####, 1: #####.#, 2: ###.##, 3: ##.###
Near zero	Turns ON when the weight value $\leq$ setting value of near zero.
Over	Turns ON when the judgment result is "weight value $\geq$ standard setting + over setting value".
Go	Turns ON even when the judgment result is neither over nor under.
Under	Turns ON when the judgment result is "weight value < standard setting - under setting value".
RANK1	Turns ON when the judgment result is "RANK1".
RANK2	Turns ON when the judgment result is "RANK2".
RANK3	Turns ON when the judgment result is "RANK3".
RANK4	Turns ON when the judgment result is "RANK4".
RANK5	Turns ON when the judgment result is "RANK5".
RANK6	Turns ON when the judgment result is "RANK6".
RANK7	Turns ON when the judgment result is "RANK7".
RANK8	Turns ON when the judgment result is "RANK8".
RANK9	Turns ON when the judgment result is "RANK9".
RANK10	Turns ON when the judgment result is "RANK10".
RANK11	Turns ON when the judgment result is "RANK11".
Upper	Turns ON when the weight value > setting value of upper.
Lower	Turns ON when the weight value < setting value of lower.
Complete	Turns ON when the weighing cycle has completed.
Stable	Turns ON when the weight value is stable.
Taking	Turns ON during data taking.
Weight error	Turns ON when the weight error occurred (LOAD, -LOAD, net over, gross over, ZALM happened).
Error status flag	Turns ON when LOAD, -LOAD, net over, gross over, or ZALM.
Remote ready	Turns ON when the initialization is complete and error status flag is OFF.

## 8. Setting Procedure

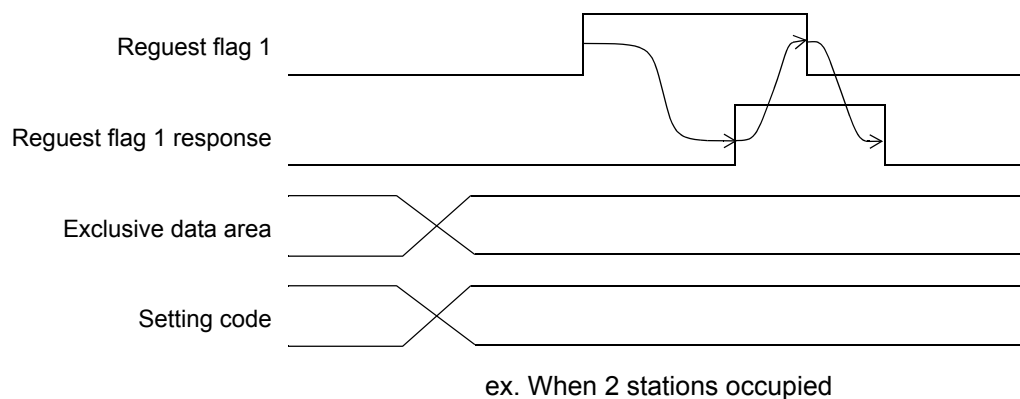
(The upper row of signal level is ON. The lower row of signal level is OFF.)

### 8-1. Exclusive data area for setting value by request flag 1

Request flag 1 is used when setting value is written in.

The setting value is written in at request flag ON edge when request flag 1 to 3 and request flag response 1 to 3 are OFF.

Stored in the code specified in the setting code.

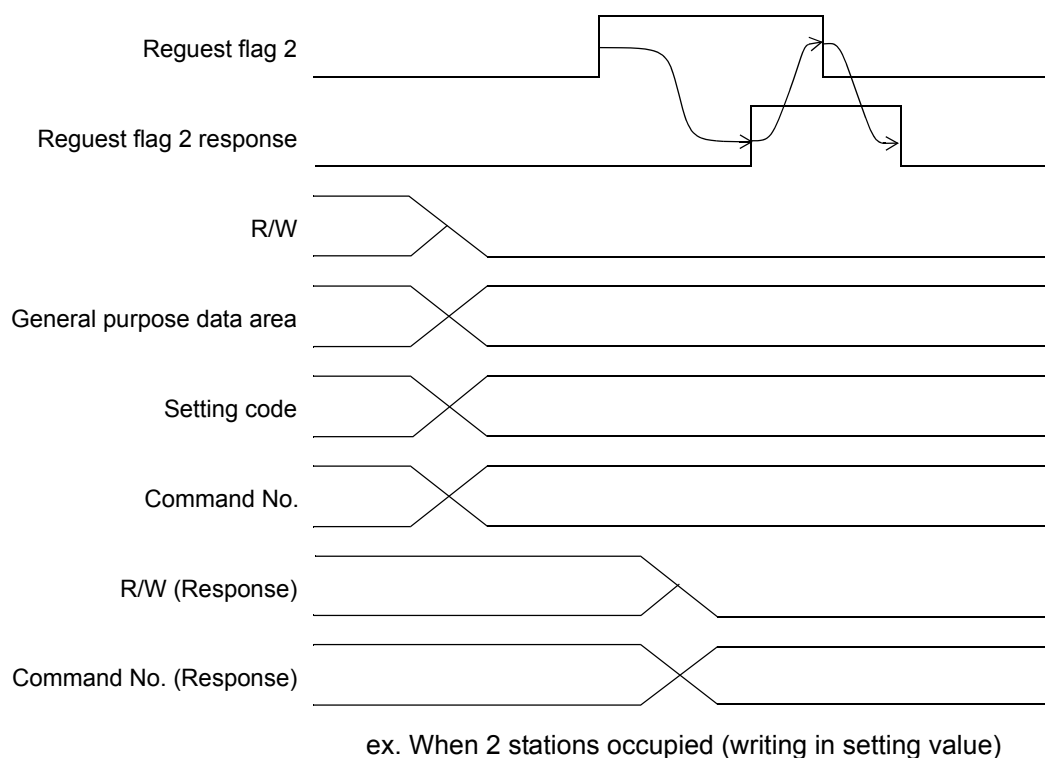


### 8-2. General purpose data area for setting Value, command No. by request flag 2

Request flag 2 is used for reading out and writing in setting value and executing operation command.

It is operated at ON edge of request flag 2 when request flag 1 to 3 and request flag 1 to 3 response are OFF.

Turn OFF R/W when writing in setting value and executing operation command.

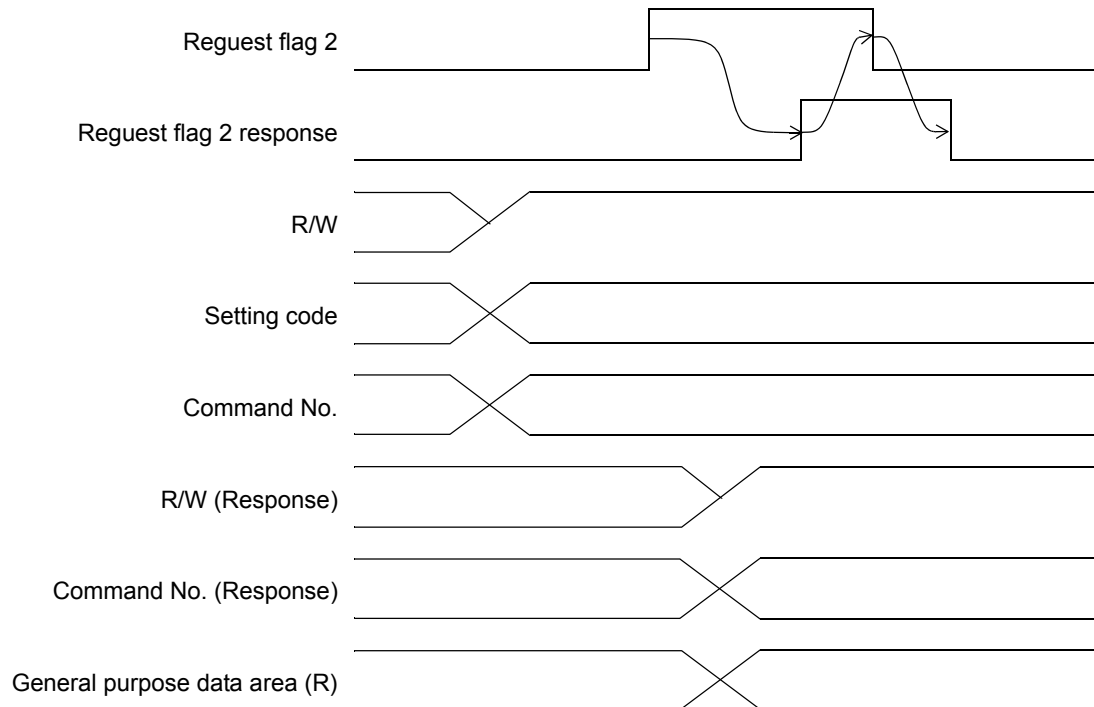


### 8-3. Reading out setting value

Turn ON R/W for reading out setting value.

The setting value of selected code is outputted.

Read out general purpose data area(R) after confirming request flag response ON.



ex. When 2 stations occupied (reading out setting value)

## 9. Alarm Codes

The communication status and PLC CPU status are displayed at the bottom of the CC-Link setting screen.

Code	Status
Alarm code 1	Undefined
Alarm code 2	0: Normal, 1: Error When a Time over error occurs, "1" results. It may also be given when the sequencer is reset.
Alarm code 3	Undefined
PLC CPU	STOP / RUN      Displays the PLC CPU status (STOP or RUN). --- / ERR        Displays "---" when the PLC CPU is normal, and "ERR" when it is abnormal.