CMC10A

Communication Controller CC-Link / CPL Converter

The CMC10A Communication Controller is a converter used for communications between Yamatake digital indicating controllers and Mitsubishi Control & Communication Link (CC-Link) systems without programming. This communication controller automatically acquires data from digital indicating controllers connected at a lower level, and continually refreshes the data between the CC-Link master unit and the CMC10A. This greatly reduces the software production load.



Specifications

CCPL Transmission mode Stations Stations Circ Ambient of modules occupying 3 stations Circ Ambient of modules occupying 4 stations Circ Ambient of modules occupying 4 stations Circ Ambient of modules occupying 4 stations Circ Circ Ambient of modules occupying 4 stations Circ Circ			
Transmission line Transmission speed Temperature controller (8CH or 16CH type selectable by setup) Station number Temperature controller (8CH or 16CH type selectable by setup) Station number Transmission speed (bps) / total distance: 10M/100m, 5M/150m, 2.5M/200m, 625k/600m, 156k/1200m Max. number of connected stations Transmission speed (bps) / total distance: 10M/100m, 5M/150m, 2.5M/200m, 625k/600m, 156k/1200m 64 (however, the following conditions must be satisfied:) (1 x a) + (2 x b) + (3 x c) + (4 x d) ≤ 64 (1) a: Number of modules occupying 1 station b: Number of modules occupying 2 stations c: Number of modules occupying 4 stations d: Number of remote l/O stations ≤ 64 B: Number of remote l/O stations ≤ 64 B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Colle Collink dedicated cable CPL Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission distance Max. No. of connected units Transmission distance Max. No. of connected units Station address 1 to 127 Loader communications CMC Power 24Vdc Power Power On DIN rail mounting	CC-Link	Communications system	Broadcast polling
Transmission speed Station type Remote device station No. of occupied stations Product type Station number Max. transmission distance Max. number of connected stations For member of connected stations Max. number of medules occupying 2 stations Max. number of modules occupying 3 station be: Number of modules occupying 3 stations de: Number of modules occupying 3 stations de: Number of medules occupying 4 stations Max. number of medules occupying 4 stations de: Number of memote loof stations ≤ 64 Be: Number of remote loof stations ≤ 64 Be: Number of remote device stations ≤ 26 Cable CC-Link dedicated cable Transmission mode Half duplex Synchronous (start/stop synchronization) Transmission speed Max. No. of connected units Transmission distance Max. So0m Max. No. of connected units Station address 1 to 127 Loader communications CMC Power 24Vdc Power Power 24Vdc Power onsumption Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting	(HOST↔	Synchronization	Frame synchronization
Station type	CMC)	Transmission line	Bus type (conforms with RS-485 3-wire system)
No. of occupied stations 4 stations		Transmission speed	10/5/2.5Mbps, 625/156kbps
Product type Temperature controller (8CH or 16CH type selectable by setup)		Station type	Remote device station
Station number		No. of occupied stations	4 stations
Station number		Product type	Temperature controller (8CH or 16CH type selectable
Max. transmission distance Max. number of connected stations Max. number of connected stations 64 (however, the following conditions must be satisfied:) (1 x a) + (2 x b) + (3 x c) + (4 x d) ≤ 64 (1) a: Number of modules occupying 1 station b: Number of modules occupying 2 stations c: Number of modules occupying 3 stations d: Number of modules occupying 4 stations d: Number of modules occupying 3 stations d: Number of modules occupying 4 stations d: Number of modules occupying 3 stations d: Number of modules occupying 3 stations d: Number of modules occupying 4 stations d: Number of modules occupying 3 stations d: Number of modules occupying 3 stations d: Number of modules occupying 4 stations d: Number of modules occupying 3 stations d: Number of modules occupying 4 stations d: Number of modules occupying 2 stations d: Number of modules occupying 2 stations d: Number of modules occupying 4 stations d: Number of modules occupying 2 stations			by setup)
Max. number of connected stations		Station number	1 to 64 (first station No.: 1 to 61)
Max. number of connected stations		Max. transmission distance	Transmission speed (bps) / total distance: 10M/100m,
Stations			5M/150m, 2.5M/200m, 625k/600m, 156k/1200m
a: Number of modules occupying 1 station b: Number of modules occupying 2 stations c: Number of modules occupying 3 stations d: Number of modules occupying 3 stations d: Number of modules occupying 4 stations (16 x A) + (54 x B) + (88 x C) ≤ 2304 (2) A: Number of remote l/O stations ≤ 64 B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Cable CC-Link dedicated cable CPL (CMC←) Synchronization Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission speed Max. 500m Max. No. of connected units Station address 1 to 127 Loader communications CMC Power consumption SW Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting		Max. number of connected	64 (however, the following conditions must be satisfied:)
b: Number of modules occupying 2 stations c: Number of modules occupying 3 stations d: Number of modules occupying 4 stations (16 x A) + (54 x B) + (88 x C) ≤ 2304 (2) A: Number of remote l/O stations ≤ 64 B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Cable CC-Link dedicated cable CPL Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission speed 9600bps Transmission distance Max. 500m Max. No. of connected units 16 units (max. 16 CH) Station address 1 to 127 Loader communications CMC Power consumption Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting		stations	$(1 \times a) + (2 \times b) + (3 \times c) + (4 \times d) \le 64 \dots$ (1)
c: Number of modules occupying 3 stations d: Number of modules occupying 4 stations (16 x A) + (54 x B) + (88 x C) ≥ 2304 (2) A: Number of remote I/O stations ≤ 64 B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Cable CC-Link dedicated cable CPL Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission distance Max. 500m Max. No. of connected units Station address 1 to 127 Loader communications CMC Power 24Vdc Power consumption Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting			a: Number of modules occupying 1 station
d: Number of modules occupying 4 stations (16 x A) + (54 x B) + (88 x C) ≤ 2304 (2) A: Number of remote I/O stations ≤ 64 B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Cable CC-Link dedicated cable CPL (CMC←) LOCAL) Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission distance Max. 500m Max. No. of connected units Station address 1 to 127 Loader communications CMC Power 24Vdc Power consumption Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting			b: Number of modules occupying 2 stations
(16 x A) + (54 x B) + (88 x C) ≤ 2304 (2) A: Number of remote I/O stations ≤ 64 B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Cable CC-Link dedicated cable CPL (CMC↔ Synchronization Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission distance Max. 500m Max. No. of connected units Station address 1 to 127 Loader communications CMC Power 24Vdc Power consumption Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting			c: Number of modules occupying 3 stations
A: Number of remote I/O stations ≤ 64 B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Cable			d: Number of modules occupying 4 stations
B: Number of remote device stations ≤ 42 C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Cable CC-Link dedicated cable Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission distance Max. 500m Max. No. of connected units Station address 1 to 127 Loader communications CMC Power Power 24Vdc Power consumption Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting			$(16 \times A) + (54 \times B) + (88 \times C) \le 2304 \dots$ (2)
C: Number of local stations, standby master stations, intelligent device stations ≤ 26 Cable CC-Link dedicated cable Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission speed 9600bps Transmission distance Max. 500m Max. No. of connected units 16 units (max. 16 CH) Station address 1 to 127 Loader communications CMC Power 24Vdc Power consumption 5W Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting			A: Number of remote I/O stations ≤ 64
stations, intelligent device stations ≤ 26 Cable CC-Link dedicated cable CPL Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission speed 9600bps Transmission distance Max. 500m Max. No. of connected units 16 units (max. 16 CH) Station address 1 to 127 Loader communications CMC Power 24Vdc Power consumption Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Srew or DIN rail mounting			B: Number of remote device stations ≤ 42
Cable CC-Link dedicated cable CPL Transmission mode Half duplex Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission distance Max. 500m Max. No. of connected units 16 units (max. 16 CH) Station address 1 to 127 Loader communications CMC Power 24Vdc Power 24Vdc Power 5W Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Service May Start/stop synchronization)			C: Number of local stations, standby master
CPL (CMC↔ LOCAL) Transmission mode Synchronization Transmission line Transmission speed Max. No. of connected units Station address Loader communications CMC Power 24Vdc Power 24Vdc Power consumption Ambient temperature Ambient humidity Mounting Transmission mode Asynchronous (start/stop synchronization) Bus type (conforms with RS-485 3-wire type) 9600bps Transmission distance Max. 500m Max. No. of connected units 16 units (max. 16 CH) Station address 1 to 127 CMC 24Vdc 5W Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting			stations, intelligent device stations ≤ 26
(CMC←) LOCAL) Synchronization Asynchronous (start/stop synchronization) Transmission line Bus type (conforms with RS-485 3-wire type) Transmission speed 9600bps Transmission distance Max. 500m Max. No. of connected units 16 units (max. 16 CH) Station address 1 to 127 Loader communications CMC Power 24Vdc Power consumption 5W Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting		Cable	CC-Link dedicated cable
Transmission line	CPL	Transmission mode	Half duplex
Transmission speed 9600bps	$(\text{CMC} \!\! \leftrightarrow \!\!\!$	Synchronization	Asynchronous (start/stop synchronization)
Transmission distance Max. 500m	LOCAL)	Transmission line	Bus type (conforms with RS-485 3-wire type)
Max. No. of connected units 16 units (max. 16 CH) Station address 1 to 127 Loader communications CMC Power 24Vdc Power consumption 5W Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting		Transmission speed	9600bps
Station address 1 to 127		Transmission distance	Max. 500m
Loader communications CMC Power 24Vdc Power consumption 5W Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting		Max. No. of connected units	16 units (max. 16 CH)
Power 24Vdc Power consumption 5W Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting		Station address	1 to 127
Power consumption 5W Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting	Loader com	munications	
Ambient temperature 0 to 50°C Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting	Power		24Vdc
Ambient humidity 30 to 80% RH Mounting Screw or DIN rail mounting	Power consi	umption	5W
Mounting Screw or DIN rail mounting	Ambient temperature		0 to 50°C
•	Ambient humidity		30 to 80% RH
Mass 300g	Mounting		Screw or DIN rail mounting
	Mass		300g

Selection Guide

Model No.	Description
CMC10ACL1A000	Communication controller CC-Link / CPL converter

Accessories (sold separately)

Model No.	Description
81440792-001	Connector set (4 units/set)
81440793-001	Dedicated interface cable
81446717-001	Terminating resister (110Ω) (2 units/set)
81446717-002	Terminating resister (130Ω) (2 units/set)

Dimensions (Unit: mm)

• DIN rail mounting • Screw mounting