

## Appendix A

### Comparison with C200H-CT001-V1

The C200H-CT021 High-speed Counter Unit has two-axis pulse input functions. These functions are not identical with the pulse input functions of the C200H-CT001-V1 High-speed Counter Unit. Refer to the following table.

Function	C200H-CT021	C200H-CT001-V1
Pulse input performance	Voltage input: 50,000 cps Line driver input: 75,000 cps	50,000 cps
Pulse input specification	With line driver input and without 5-V input	With 5-V input and without line driver input
Input setting	DM area	DIP switch
Reset mode	Number of modes set with DM: 11	Number of modes set with DIP switch: 17
Output specification	NPN or PNP (selectable) 8 points/common 8 points/two axes	NPN output only 4 points/common 8 axes/axis
Operating mode	Newly added: Simple counter mode Canceled: Latch mode	Unavailable: Simple counter mode Available: Latch mode
Data transfer function	Impossible to change the transfer area or number of transfer data blocks after the Unit is turned ON. Transfer area: DM 0000 to DM 1999 for the C200H and DM 0000 to DM 6655 for the C200HS, C200HX, C200HG, and C200HE	Impossible to change the transfer area or number of transfer data blocks after the Unit is turned ON. Transfer area: DM 0000 to DM 1999 for the C200H, C200HS, C200HX, C200HG, and C200HE
IORD/IOWR instructions	Available	Unavailable
External forced output	Set with IR bits. Not controlled with ladder programs. Available only when external outputs are not inhibited. Enabled with a DM command.	Set with IR bits. Enabled with IR command. (Enable forced output)
Sign indication	+: 0, -: F	+: 0, -: 1
Number of comparative upper and lower limits	16 sets for two counters	16 sets/counter
Number of preset values	20 sets for two counters	20 sets/counter
Count input signal	Up and down pulses input Input A: Down Input B: Up Pulse and direction input Input A: Direction Input B: Pulse	Up and down pulses input Input A: Up Input B: Down Pulse and direction input Input A: Pulse Input B: Direction
Set value range/Present counter value	BCD/Hexadecimal data	BCD data only
Error clear	The error clear command can be issued with the data transfer or IOWR instruction.	With the error read operation.
Error Flag	Kept on hold while the Unit has the error. Cleared with the error clear command.	Cleared when the error is read.
Error code	Read repeatedly.	Read only once.
Unit number	0 to F	0 to 9