MITSUBISHI ELECTRIC

TECHNICAL BULLETIN

FA-A-0189-B

Production discontinuation of 10/100/1000M industrial switching HUB NZ2EHG-T8

■Date of Issue

August 2015 (Ver. B: November 2018)

■Relevant Models

NZ2EHG-T8

Thank you for your continued support of Mitsubishi Electric programmable controllers.
Production of the industrial switching HUB NZ2EHG-T8 will be discontinued.

1 Model to be discontinued

Product	Model
10/100/1000M industrial switching HUB	NZ2EHG-T8

2 Schedule

- Transition to made-to-order: August 31, 2015
- Order acceptance: Through December 31, 2015
- Production discontinuation: January 31, 2016

3 Reason for discontinuation

Some parts of the switching HUB are now obsolete, and we will have difficulty to maintain our production system.

4 Repair support

Repair support period: Until January 31, 2022 (for six years after the discontinuation of production)

5 Alternative models

Product	Name of model to be discontinued	Name of alternative model
10/100/1000M industrial switching HUB	NZ2EHG-T8	NZ2EHG-T8N

6 Comparison of specifications

6.1 Comparison of specifications between NZ2EHG-T8 and NZ2EHG-T8N

There are differences in buffer capacity, internal connection between FG terminal and Vi-, and power consumption.

Item	Model	
	NZ2EHG-T8	NZ2EHG-T8N
Ethernet standards	IEEE802.3/IEEE802.3u/IEEE802.3ab–compliant	
Data communication rate	10/100/1000Mbps (auto-recognition)	
Access method	CSMA/CD	
Communication method	All ports: Full/Half duplex (auto-recognition)	
Topology	Star topology	
Flow control	Full Duplex: IEEE802.3x compliant flow control Half Duplex: Back pressure	
Number of effective ports	8	
Switching method	Store and forward	
Address table	8,192 entries	
Jumbo frame*1	9.6Kbyte	
Buffer capacity	176Kbyte	512Kbyte
CC-Link IE Field Network synchronous communication function	Not supported	
Aging time	300s (Max.)	
LED indicator	POWER (Green), LINK/ACT 10M (Yellow), LINK/ACT 100M (Green), LINK/ACT 1000M (Green)	
Power supply voltage	12V to 24VDC±5%	
FG terminal	The power connector is equipped with FG terminal.	
Internal connection between FG terminal and Vi-	Connected	Not connected
	FG terminal is short-circuited with the minus side (Vi-) of power supply.	FG terminal is separated (by high resistance) from the minus side (Vi-) of power supply.
Power consumption (Max.)	0.60A at 12VDC 0.40A at 24VDC	0.65A at 12VDC 0.35A at 24VDC
Physical dimensions (mm)	39 (W) × 120 (D) × 94 (H) (excluding protrusions)	
Weight	360g (410g with a DIN rail mounting bracket or two mounting brackets)	
Installation method	Onto a DIN rail or on the wall	

*1 To use Jumbo Frame, it is necessary for other network devices on the communication route to be Jumbo Frame compatible.

6.2 Comparison of installation environment requirements between NZ2EHG-T8 and NZ2EHG-T8N

There are no differences in installation environment requirements between NZ2EHG-T8 and NZ2EHG-T8N.

Item		Model	
		NZ2EHG-T8	NZ2EHG-T8N
Operating ambient temperature		0 to 50℃	
Storage ambient temperature		-10 to 60℃	
Ambient humidity		10 to 90%RH (No condensation)	
Floating dust particles		Tolerant of small amounts (non-excessive)	
Corrosive gases		None	
Noise immunity	Line-noise	AC line/2kV, Signal line/1kV (JIS C61000-4-4 Level 3, IEC61000-4-4 Level 3)	
	Electrostatic discharge immunity	Contact discharge/4kV (JIS C61000-4-2 Level 2, IEC61000-4-2 Level 2) Air discharge/8kV (JIS C61000-4-2 Level 3, IEC61000-4-2 Level 3)	
Vibration resistance	Sweep resistance	10 to 57Hz/half amplitude 0.15mm, 57 to 150Hz/2.0G 40 minutes each in X, Y, and Z directions (JIS C60068-2-6-compliant, EC60068-2-6-compliant)	
Shock resistance		15G, sine half-wave pulse for 11ms each in X, Y, and Z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)	
Grounding		Ground the FG terminal to the protective ground conductor.	
Installation location		Inside a control panel	

6.3 Precautions

Because the alternative model, NZ2EHG-T8N, has a larger buffer capacity and supports the CC-Link IE Field Network synchronous communication function, start-up time from power-on to link-up (LED lit and communications enabled) increases. Perform the following for the products to be connected to the NZ2EHG-T8N.

When Ethernet products are connected

When programming with Ethernet products (such as the RJ71EN71, LJ71E71-100, and QJ71E71-100) connected to the NZ2EHG-T8N, create an interlock or set a retry which are described in the manual for each product.

Model	References		
	Manual name	Manual No.	Model code
RJ71EN71	MELSEC iQ-R Ethernet/CC-Link IE User's Manual (Startup)	SH-081256ENG	13JX09
	MELSEC iQ-R Ethernet User's Manual (Application)	SH-081257ENG	13JX16
LJ71E71-100	MELSEC-L Ethernet Interface Module User's Manual (Basic)	SH-081105ENG	13JZ73
QJ71E71-100	Q Corresponding Ethernet Interface Module User's Manual (Basic)	SH-080009	13JL88

When CC-Link IE Field Network products are connected

When programming with CC-Link IE Field Network products (such as the RJ71GF11-T2, RJ71EN71, LJ71GF11-T2, QJ71GF11-T2, and QS0J71GF11-T2) connected to the NZ2EHG-T8N, create an interlock with link special relay (SB) and link special register (SW) described in the manual for each product.

Model	References		
	Manual name	Manual No.	Model code
RJ71GF11-T2 RJ71EN71	MELSEC iQ-R Ethernet/CC-Link IE User's Manual (Startup)	SH-081256ENG	13JX09
	MELSEC iQ-R CC-Link IE Field Network User's Manual (Application)	SH-081259ENG	13JX18
LJ71GF11-T2	MELSEC-L CC-Link IE Field Network Master/Local Module User's Manual	SH-080972ENG	13JZ54
QJ71GF11-T2	MELSEC-Q CC-Link IE Field Network Master/Local Module User's Manual	SH-080917ENG	13JZ47
QS0J71GF11-T2	MELSEC-QS CC-Link IE Field Network Master/Local Module User's Manual	SH-080969ENG	13JZ53

REVISIONS

Version	Date of Issue	Revision
-	August 2015	First edition
A	October 2015	Change of the date described in Chapter 2, 4, and 5
B	November 2018	Correction of words in Chapter 5 and 6