MITSUBISHI ELECTRIC

[Issue No.]	FA-A-0260
[Title]	Production discontinuation of MELSECNET/10 network module
[Date of Issue]	March 2018
[Relevant Models]	A1SJ71LP21, A1SJ71BR11, A1SJ71QLP21, A1SJ71QBR11

Thank you for your continued support of Mitsubishi Electric programmable controllers, MELSEC-AnS/QnAS series.
Production of the following MELSECNET/10 network module will be discontinued.

1   Models to be discontinued

Product	Series	Model
MELSECNET/10 network module	MELSEC-AnS series	A1SJ71LP21
		A1SJ71BR11
	MELSEC-QnAS series	A1SJ71QLP21
		A1SJ71QBR11

2   Schedule

Order acceptance: Until February 28, 2019
Production discontinuation: March 31, 2019

3   Reason for discontinuation

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

4   Repair support

Repair support period: Until March 31, 2026 (for seven years after the discontinuation of production)

5   Alternative models

Models to be discontinued		Alternative models	
Series	Model	Series	Model
MELSEC-AnS series	A1SJ71LP21	MELSEC-Q series	QJ71LP21-25
	A1SJ71BR11		QJ71BR11
MELSEC-QnAS series	A1SJ71QLP21		QJ71LP21-25
	A1SJ71QBR11		QJ71BR11

Point

Replace the whole system, including the power supply module, base unit, and CPU module, with that of the MELSEC-Q series.

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6   Procedure and precautions for replacement

For details, refer to the following.

📖Transition from MELSEC-A/QnA (Large Type) Series to Q series Handbook (Network Modules) L08048ENG

7   Functional comparison between the discontinued and alternative models

7.1   Performance specifications comparison between A1SJ71LP21/ A1SJ71QLP21 and QJ71LP21-25

Item			Models to be discontinued		Alternative models
			A1SJ71LP21	A1SJ71QLP21	QJ71LP21-25
Maximum number of link points per network	PLC to PLC network	LX/LY	8192 points		8192 points
		LB	8192 points		16384 points (MELSECNET/10 mode: 8192 points)
		LW	8192 points		16384 points (MELSECNET/10 mode: 8192 points)
	Remote I/O network	LX/LY	8192 points		8192 points
		LB	8192 points		16384 points (remote master station → remote sub-master station/remote I/O station: 8192 points, remote sub-master station/remote I/O station → remote master station: 8192 points)
		LW	8192 points		16384 points (remote master station → remote sub-master station/remote I/O station: 8192 points, remote sub-master station/remote I/O station → remote master station: 8192 points)
Maximum number of link points per station	PLC to PLC network		$((LY + LB) \div 8 + (2 \times LW)) \leq 2000$ bytes		■MELSECNET/H mode, MELSECNET/10 mode $((LY + LB) \div 8 + (2 \times LW)) \leq 2000$ bytes ■MELSECNET/H expansion mode $((LY + LB) \div 8 + (2 \times LW)) \leq 35840$ bytes
	Remote I/O network		■Master station → remote I/O station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Remote I/O station → master station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes	■Remote master station/ remote sub-master station → remote I/O station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Remote I/O station → remote master station/ remote sub-master station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Remote master station ↔ remote sub-master station $((LY + LB) \div 8 + (2 \times LW)) \leq 2000$ bytes	■Remote master station → remote I/O station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Remote I/O station → remote master station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Multiplexed remote master station ↔ multiplexed remote sub-master station $((LY + LB) \div 8 + (2 \times LW)) \leq 2000$ bytes
Communication speed			10Mbps		25Mbps/10Mbps (using a mode setting switch)
Number of connectable modules per network	PLC to PLC network		64 stations (control station: 1, normal station: 63)		64 stations (control station: 1, normal station: 63)
	Remote I/O network		65 stations (remote master station: 1, remote I/O station: 64)		65 stations (remote master station: 1, remote I/O station: 64)
Connection cable			Optical fiber cable		Optical fiber cable
Applicable connector			Two core type optical connector plug		Two core type optical connector plug
Overall cable distance			30km		30km

Item		Models to be discontinued		Alternative models
		A1SJ71LP21	**A1SJ71QLP21**	**QJ71LP21-25**
Distance between stations	25Mbps	—		• SI optical cable: 200m • H-PCF optical cable: 400m • Broad-band H-PCF optical cable: 1km • QSI optical cable: 1km
	10Mbps	• SI optical cable: 500m • H-PCF optical cable: 1km • Broad-band H-PCF optical cable: 1km • QSI optical cable: 1km		• SI optical cable: 500m • H-PCF optical cable: 1km • Broad-band H-PCF optical cable: 1km • QSI optical cable: 1km
Maximum number of networks		255 (total of the number of PLC to PLC networks and that of remote I/O networks)	239 (total of the number of PLC to PLC networks and that of remote I/O networks)	239 (total of the number of PLC to PLC networks and that of remote I/O networks)
Maximum number of groups		9		32 (MELSECNET/10 mode: 9)
Number of occupied I/O points		32 points (I/O assignment: special 32 points)		32 points (I/O assignment: intelligent 32 points)
Current consumption		0.65A	0.40A	0.55A
External dimensions	Height	130mm		98mm
	Width	34.5mm		27.4mm
	Depth	93.6mm		90mm
Weight		0.18kg		0.11kg

7.2 Performance specifications comparison between A1SJ71BR11/A1SJ71QBR11 and QJ71BR11

Item			Models to be discontinued		Alternative model
			A1SJ71BR11	**A1SJ71QBR11**	**QJ71BR11**
Maximum number of link points per network	PLC to PLC network	LX/LY	8192 points		8192 points
		LB	8192 points		16384 points (MELSECNET/10 mode: 8192 points)
		LW	8192 points		16384 points (MELSECNET/10 mode: 8192 points)
	Remote I/O network	LX/LY	8192 points		8192 points
		LB	8192 points		16384 points (remote master station → remote sub-master station/remote I/O station: 8192 points, remote sub-master station/remote I/O station → remote master station: 8192 points)
		LW	8192 points		16384 points (remote master station → remote sub-master station/remote I/O station: 8192 points, remote sub-master station/remote I/O station → remote master station: 8192 points)
Maximum number of link points per station	PLC to PLC network		$((LY + LB) \div 8 + (2 \times LW)) \leq 2000$ bytes		■MELSECNET/H mode, MELSECNET/10 mode $((LY + LB) \div 8 + (2 \times LW)) \leq 2000$ bytes ■MELSECNET/H expansion mode $((LY + LB) \div 8 + (2 \times LW)) \leq 35840$ bytes
	Remote I/O network		■Master station → remote I/O station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Remote I/O station → master station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes	■Remote master station/remote sub-master station → remote I/O station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Remote I/O station → remote master station/remote sub-master station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Remote master station ↔ remote sub-master station $((LY + LB) \div 8 + (2 \times LW)) \leq 2000$ bytes	■Remote master station → remote I/O station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Remote I/O station → remote master station $((LY + LB) \div 8 + (2 \times LW)) \leq 1600$ bytes ■Multiplexed remote master station ↔ multiplexed remote sub-master station $((LY + LB) \div 8 + (2 \times LW)) \leq 2000$ bytes
Communication speed			10Mbps		10Mbps
Number of connectable modules per network	PLC to PLC network		32 stations (control station: 1, normal station: 31)		32 stations (control station: 1, normal station: 31)
	Remote I/O network		33 stations (remote master station: 1, remote I/O station: 32)		33 stations (remote master station: 1, remote I/O station: 32)
Connection cable			High frequency coaxial cable		High frequency coaxial cable
Applicable connector			• Connector plug for 3C-2V • Connector plug for 5C-2V • Connector plug for 5C-FB		• Connector plug for 3C-2V • Connector plug for 5C-2V • Connector plug for 5C-FB
Overall cable distance			• 3C-2V: 300m • 5C-2V/5C-FB: 500m Using a repeater module (A6BR10, A6BR10-DC) can extend the distance to 2.5km.		• 3C-2V: 300m • 5C-2V/5C-FB: 500m Using a repeater module (A6BR10, A6BR10-DC) can extend the distance to 2.5km.
Maximum number of networks			255 (total of the number of PLC to PLC networks and that of remote I/O networks)	239 (total of the number of PLC to PLC networks and that of remote I/O networks)	239 (total of the number of PLC to PLC networks and that of remote I/O networks)
Maximum number of groups			9		32 (MELSECNET/10 mode: 9)
Number of occupied I/O points			32 points (I/O assignment: special 32 points)		32 points (I/O assignment: intelligent 32 points)
Current consumption			0.80A		0.75A
External dimensions	Height		130mm		98mm
	Width		34.5mm		27.4mm
	Depth		104.6mm		90mm
Weight			0.33kg	0.30kg	0.11kg