

MELSEC Ans series

Programmable Controller

User's Manual

MELSECNET/B Data Link Module A1SJ71T21B

REVISIONS

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INTRODUCTION

Thank you for choosing the Mitsubishi MELSEC-A Series of General Purpose Programmable Controllers. Please read this manual carefully so that the equipment is used to its optimum. A copy of this manual should be forwarded to the end User.

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1. INTRODUCTION

 This manual describes the specifications, part names, and self-diagnostic tests of the A1SJ71T21B.

The A1SJ71T21B is used with an A1SCPU in a MELSECNET/B data link system.

(2) The following gives the application, applicable cable, and installation location of the A1SJ71T21B:

Application : As a master or local station

Applicable cable : Twisted wire pair cable

· Module installation location: I/O slot of a main or extension base unit

(3) The following manual gives details about the MELSECNET/B data link system:

MELSECNET, MELSECNET/B data link system reference manual

2. SPECIFICATIONS

This section gives the general specifications of the data link system and the performance specifications of the A1SJ71T21B.

2.1 General Specifications

The general specifications of the data link system are given below:

Item			Specifications		
Operating ambient temperature	0 to 55 °C	31811			
Storage ambient temperature	−20 to 75 °C				
Operating ambient humidity	10 to 90% RH, non-condensing				
Storage ambient temperature	10 to 90% RH, non-condensing				
		Frequency	Acceleration	Amplitude	Sweep Count
Vibration resistance	Conforms to ** JIS C 0911	10 to 55 Hz	_	0.075 mm (0.003 in)	10 times *(1 octave/minute
		55 to 150 Hz	1 G	<u> </u>	
Shock resistance	Conforms to JIS C 0912 (10g X 3 times in 3 directions)				
Noise durability	By noise simulator of 1500 Vpp voltage,1 μsec noise width and 25 to 60 Hz noise frequency				
Dielectric withstand voltage	500 VAC for 1 minute across DC external terminals and ground				
Insulation resistance	$5~\text{M}\Omega$ or greater by 500 VDC insulation resistance tester across AC external terminals and ground				
Operating ambience	Free of corrosive gases. Dust should be minimal.				
Cooling method	Self-cooling				

REMARK

One octave marked * indicates a change from the initial frequency to double or half frequency. For example, any of the changes from 10 to 20 Hz, from 20 to 40 Hz, or 20 to 10 Hz are referred to as one octave.

Note: ** JIS: Japanese Industrial Standard

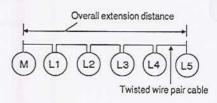
2.2 Performance Specifications

The performance specifications of the A1SJ71T21B are given below:

Item			Specifications		
Model			A1SJ71T21B		
Max. number of device points allocated to communication linkage per station Input (X)			Depends on the Max. number of I/O points of the utilized PC CPU		
Max. number of device points allocated B		В	1024 (128 bytes)		
to communication linkage per syst	em	W	1024 (2048 bytes)		
Max. number of device points allocommunication linkage in a station	cated to)	Y (points) + B (points) 8 + 2 x W (points) ≤ 1024 bytes		
Current consumption (5 VDC)			0.66 A		
Weight			0.22 kg		
Allowable momentary power failure	e time		20 msec		
Communication speeds			125K bps/250K bps/500K bps/1M bps		
Communication method			Half duplex bit serial method		
Synchronous method			Frame synchronous method		
Transmission path method			Bus type		
Overall extension distance			Varies according to the communication speed		
Number of connected stations			Max. 32 units (1 master station, 31 local stations)		
Modulation method			NRZI method		
Transmission format			Conforms to HDLC (frame method)		
Error control system			Retry due to CRC (generating polynomial X16 + X12 + X5 + 1) and timeout		
RAS function			Diagnostic function such as host link line		
Connecting terminal			Terminal block		
Applicable cable			Shielded twisted wire pair cable (KNPEV-SB 0.5SQ x 1P)		
Number of occupied I/O points			32 points		

REMARK

 The overall extension distance is the distance between both end stations in the MELSECNET/B data link system.



(2) The relationship between communication speeds and the overall extension distance is shown below:

		Communication Speeds				
	125K bps	250K bps	500K bps	1M bps		
Overall extension distance	1200 m	600 m	400 m	200 m		

3. HANDLING

3.1 Handling Instructions

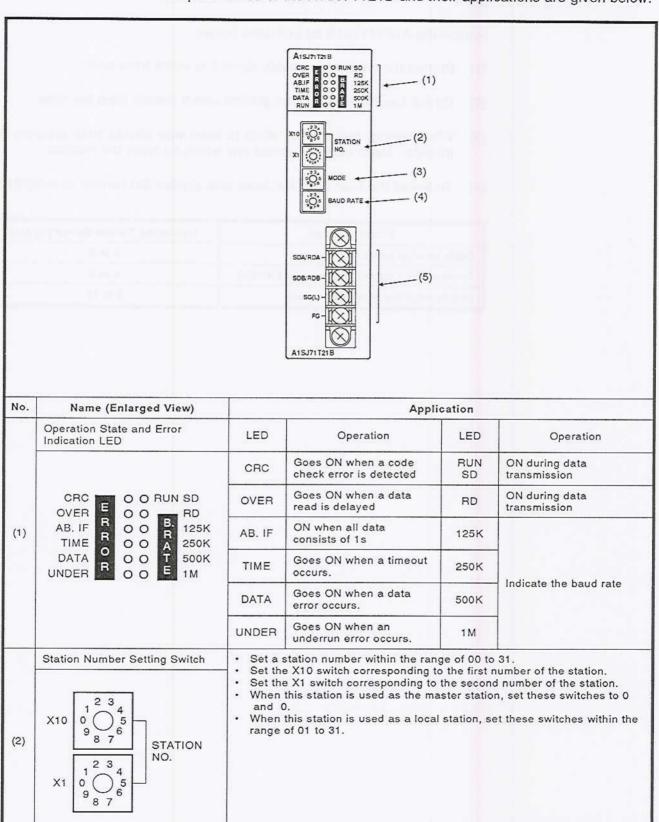
Handle the A1SJ71T21B as indicated below:

- (1) Protect the case from impact, since it is made from resin.
- (2) Do not touch or remove the printed circuit boards from the case.
- (3) When wiring, make every effort to keep wire offcuts from entering the module. Make sure to remove any which do enter the module.
- (4) To install the module to the base unit, tighten the screws as indicated:

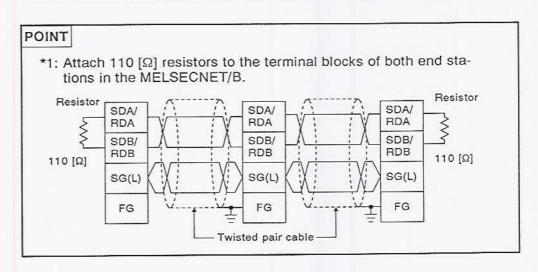
Screw Location	Tightening Torque Range (kg·cm)
Cable terminal screw (M3.5 screw)	6 to 9
Terminal block mounting screw (M3.5 screw)	6 to 9
Module mounting screw (M4 screw)	8 to 12

3.2 Part Names

The part names of the A1SJ71T21B and their applications are given below:



No.	Name (Enlarged View)	Application				
	Mode Selection Switch	The fo	llowing modes ca	an be selected using the mode se	election switch:	
	2 3 4 5 6 7 0 MODE	Setting Number	Name	Name Description		
		0	Online (A.R)	A.R) Automatically returns when the module operates normally.		
		1	Online (U.R)	Does not automatically return when the module operates normally.		
(3)	1 7 8 MODE	2	Offline Releases the self station.			
	F_ \(\(\delta^9 \)	3.4		Unused		
	-DCB	5	Test 1 (B.M)	Inter-station test mode (maste	er station)	
		6	Test 2 (B.S)	Inter-station test mode (slave	station)	
		7	Test 3 (S.R)	Self-loopback test		
		8 to F		Unusable		
	Baud Rate Switch	Setting Number				
	2 3 1 4 0 5 9 6 6 8 7	0	125K bps			
		1		250K bps	S. III	
(4)		2		500K bps		
		3		1 M bps		
		4 to F		Unused*		
		* If the switch is set to any number from 4 to F, the LED (DATA) goes ON and the module goes into the offline state.				
	Terminal Block • How to wire the stations is shown in the P				1:	
		Maste	r station	Station 1	Station 2	
		SDA/RDA SDB/RDB SG(L)		SDA/RDA V	SDA/RDA	
(5)	SDA/RDA——————————————————————————————————			SDB/RDB A	SDB/RDB	
(5)				SG(L)	SG(L)	
	FG—		FG V	FG VV	FG	
				Twisted wire pair cable		



3.3 Settings of Each Part

- (1) Set the link module in the data link system as shown below:
 - (a) Station number switch setting Specify the station number of the A1SJ71T21B within the range of 00 to 31.
 - (b) Mode switch setting
 Sets the operation mode and the self-diagnosis mode.
 - (c) Link parameter setting using a peripheral device When the A1SJ71T21B is used as a master station, set a link parameter in the PC CPU.
- (2) The MELSECNET, MELSECNET/B data link reference manual gives details.

4. SELF-DIAGNOSTIC TESTING

 Self-diagnostic tests are done to check (a) the hardware of the A1SJ71T21B and (b) twisted pair cable disconnections between the A1SJ71T21B and the CPU.

Select one of the three modes using the mode setting switch as shown below:

Switch Setting	Mode	Description	
5	Inter-station test (master station)	Checks the line between the two stations. Set one station as the master station and the other as the slave station, then execute the check.	
6	Inter-station test (slave station)		
7	Self-loopback test	Checks the hardware using an independent A1SJ71T21B.	

(2) Only the self-loopback test procedure is explained here. The MELSEC-NET, MELSECNET/B data link system reference manual gives details about other procedures.

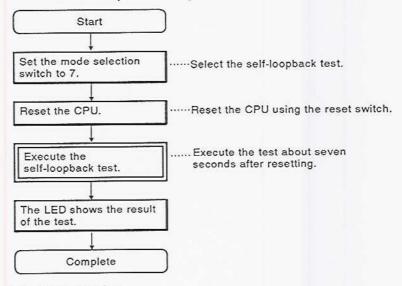
4.1 Self-Loopback Test

Self-loopback test

Checks the hardware using an independent A1SJ71T21B.

(2) Test procedure

The self-loopback test procedure is shown below:



(3) Test results

The LEDs on the front of the A1SJ71T21B show the test results.

- (a) If the A1SJ71T21B is working normally, the LED flashing begins with CRC, followed by OVER, AB.IF, TIME, DATA, and UNDER.
- (b) When the A1SJ71T21B works abnormally, the LED corresponding to the error goes ON. If the test ends before completion, the hardware could be faulty.

4.2 Inter-Station Testing

(1) Checks the line between the two adjoining stations.

The test checks if (a) the slave station (A1SJ71T21B) retransmits the data transmitted by the master station (A1SJ71T21B) within a certain time and (b) determines whether or not the hardware is faulty.

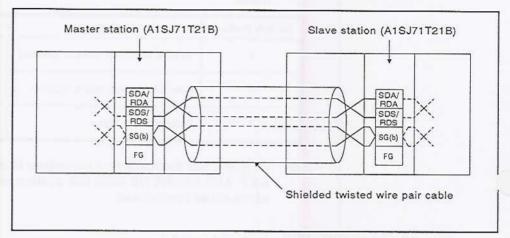
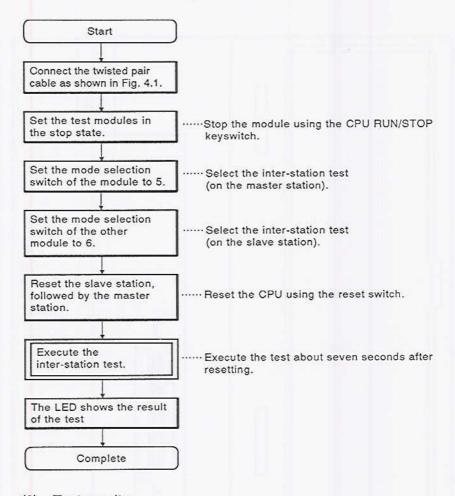


Fig. 4-1 Inter-Station Test

(2) Test procedure

The inter-station test procedure is shown below:



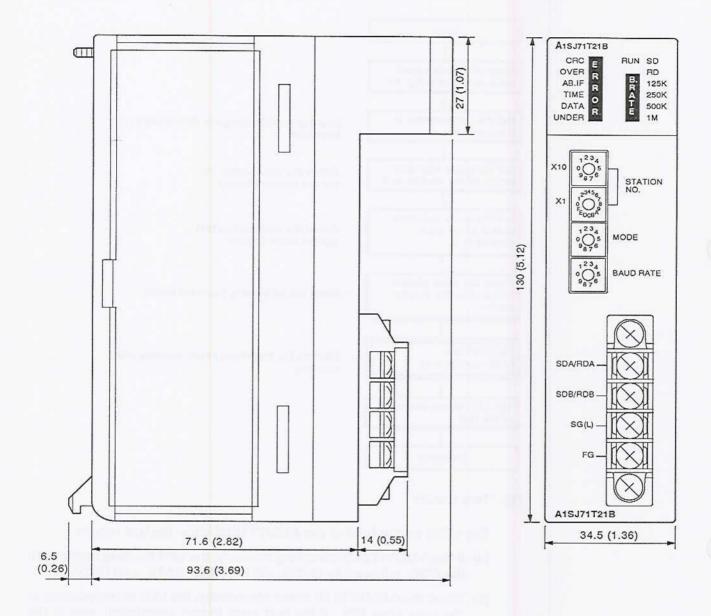
Test results

The LEDs on the front of the A1SJ71T21B show the test results.

- (a) If the A1SJ71T21B is working normally, the LED flashing begins with the CRC, followed by OVER, AB.IF, TIME, DATA, and UNDER.
- (b) When the A1SJ71T21B works abnormally, the LED corresponding to the error goes ON. If the test ends before completion, one of the following events has occurred:
 - The hardware is faulty;
 - 2) A cable became disconnected during the test;
 - 3) A cable line was cut during the test.

APPENDICES

Appendix 1 Outside Dimensions



Unit: mm (inch)

IMPORTANT

The components on the printed circuit boards will be damaged by static electricity, so avoid handling them directly. If it is necessary to handle them take the following precautions.

- (1) Ground human body and work bench.
- (2) Do not touch the conductive areas of the printed circuit board and its electrical parts with any non-grounded tools etc.



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