NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE
FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA22694M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use" and the relevant Society's Rules.

This certificate is issued to

Manufacturer:	IDEC CORPORATION
Place of Manufacturing:	IDEC IZUMI TAIWAN CORPORATION No. 87, Shuiguan Rd., Renwu Dist., Kaohsiung City 81465 , Taiwan
Product description:	Programmable Logic Controller FT1A Series
Model:	FT1A Series
Approval No.:	13A028
Valid until:	4 August 2027

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 12 December 2022.

S. Oishi
General Manager
Machinery Department

Note: 1. This certificate has been issued due to the deletion of a place of manufacturing.

2. The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Particulars: Power supply: FT1A Touch - 24V DC

FT1A Pro and Lite - 100 to 240V AC, 24V DC

2. Components and reference drawings:

Touch (Display Models)

Model Number	Number of Input / Output	Interfaces
FT1A-M12RA-W		
FT1A-M12RA-B		
FT1A-M12RA-S	12 (8 in /4 out)	
FT1A-C12RA-W		
FT1A-C12RA-B		
FT1A-C12RA-S		
FT1A-M14KA-W		USB-A
FT1A-M14KA-B		USB mini-B
FT1A-M14KA-S		RS232C
FT1A-M14SA-W		RS422/485
FT1A-M14SA-B		Ethernet
FT1A-M14SA-S		
FT1A-C14KA-W	14 (8 in /6 out)	
FT1A-C14KA-B		
FT1A-C14KA-S		
FT1A-C14SA-W		
FT1A-C14SA-B		
FT1A-C14SA-S		

Pro (LCD models)

Model Number	Number of Input / Output	Interfaces					
		USB mini-B port	Ethernet Port	Extended Communication Port		Memory Cartridge Port	SD Memory Card Slot
				Port 2	Port3		
FT1A-H12RA	12 (8 in / 4 out)		--	--	--		--
FT1A-H24RA	24 (16 in / 8 out)				--		--
FT1A-H40RKA	40 (24 in / 16 out)						
FT1A-H40RSA	40 (24 in / 16 out)	X	X	X		X
FT1A-H48KA	48 (30 in / 18 out)				X		
FT1A-H48SA	48 (30 in / 18 out)	X				X	
FT1A-H12RC	12 (8 in / 4 out)		--	--	--		--
FT1A-H24RC	24 (16 in / 8 out)				--		--
FT1A-H40RC	40 (24 in / 16 out)		X	X			
FT1A-H48KC	48 (30 in / 18 out)				X		X
FT1A-H48SC	48 (30 in / 18 out)						

- To be continued -

Lite (No LCD Models)

Model Number	Number of Input / Output	Interfaces					
		USB mini-B port	Ethernet Port	Extended Communication Port		Memory Cartridge Port	SD Memory Card Slot
				Port 2	Port3		
FT1A-B12RA	12 (8 in / 4 out)	X	--	--	--	X	--
FT1A-B24RA	24 (16 in / 8 out)	X	X	X	--	X	--
FT1A-B40RKA	40 (24 in / 16 out)	X	X	X	X	X	X
FT1A-B40RSA	40 (24 in / 16 out)	X	X	X	X	X	X
FT1A-B48KA	48 (30 in / 18 out)	X	X	X	X	X	X
FT1A-B48SA	48 (30 in / 18 out)	X	X	X	X	X	X
FT1A-B12RC	12 (8 in / 4 out)	X	--	--	--	X	--
FT1A-B24RC	24 (16 in / 8 out)	X	X	X	--	X	--
FT1A-B40RC	40 (24 in / 16 out)	X	X	X	X	X	X
FT1A-B48KC	48 (30 in / 18 out)	X	X	X	X	X	X
FT1A-B48SC	48 (30 in / 18 out)	X	X	X	X	X	X

Options

Model Number	Name	Specification
FT1A-PC1	Extended Communication Cartridge	RS232C, mini DIN Connector type
FT1A-PC2	Extended Communication Cartridge	RS485, mini DIN Connector type
FT1A-PC3	Extended Communication Cartridge	RS485, terminal block type
FT1A-PM1	Memory Cartridge	Dedicated user program save memory (1MB)

Note : "Option Modules" indicated in the Society's separate type approval certificate (Approval No.15A018) are able to be connected with FT1A Touch transistor output types.

3. Documentation and Test Reports:

Y1494-6L01 D, Y1494-0L01 E, Y1494-6L01J

12-RD219-111, 12-RD219-116, 12-RD219-112, 12-RD219-117, 15-306-044, 15-306-047

Document for software: 10-391-162

Flame Retardance Data: 12-RD219-113 Rev.0 (22 February 2013), 12-RD219-118, 15-306-054

E67171, E41613, E45329,

Test report NSH-12046-16 (20 September 2013)

16-306-025, 15-306-124, 15-306-125, 15-306-126, 15-306-127, KL80150276,

22-306-014N, 22-306-008, KL80200585

- **To be continued -**

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.8 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70℃ × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ± 0.7g)		X
Inclination test		--
Cold test (Temperature 0℃ × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

(1) "Touch" model is not allowed to be installed on open decks.

(2) "Pro" and "Lite" model is not allowed to be installed in the bridge and on open decks.

- The End -