



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 13/10102(E12) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Yokogawa Electric Corporation 2-9-32 Nakacho, Musashino-shi, Tokyo, 180-8750, Japan	
PLACE OF PRODUCTION	Yokogawa Electric Asia Pte Ltd. 5 Bedok South Road, Singapore 469270 PT Yokogawa Manufacturing Batam Lot 339-340, Jalan Beringin Batamindo Industrial Park Mukakuning, Batam, 29433, Indonesia	
DESCRIPTION	Distributed Control System & Safety Control and Monitoring System (IEC 61508: SIL3 level)	
TYPE	Distributed Control System CENTUM CS3000 and CENTUM VP comprising the following modules :	
	FCU	
	AFV10D Series	Duplexed Field Control Unit (for Vnet/IP, for FIO, 19" Rack Mountable Type)
	AFV30D Series	Duplexed Field Control Unit (for Vnet/IP, for FIO, 19" Rack Mountable Type)
	AFV30S Series	Field Control Unit (for Vnet/IP, for FIO, 19" Rack Mountable Type)
	A2FV50D Series	Duplexed Field Control Unit (for N-IO, 19" Rack Mountable Type)
	A2FV50S Series	Field Control Unit (for N-IO, 19" Rack Mountable Type)
	FIO Node	
	ANB10D Series	Node unit for ESB bus
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Expiry Date	26 November 2020	
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	ANB11D Series	Node unit for Dual-redundant ESB bus with Optical Repeater
	ANB11S Series	Node unit for ESB bus with Optical Repeater
	ANR10D Series	Node unit for ER bus
	ANR11D Series	Node unit for ER bus
TYPE (Continued)	Interface Card	
	VI701 Series	Vnet/IP Interface Card
	VF701 Series	Vnet Interface Card
	VI 702 Series	Vnet/IP Interface Card
	VF702 Series	Vnet Interface Card
	Analog I/O Module	
	AAI141 Series	AI module (4-20mA, 16-channel, non-isolated)
	AAT145 Series	AI module (TC/mV, 16-channel, isolated-channels)
	AAR145 Series	AI module (RTD, 16-channel, isolated-channels)
	AAP135 Series	AI module (Pulse input 0-10KHz, 8-channel, isolated-channels)
	AAI135 Series	AI module (4-20mA, 8-channel, isolated-channels)
	AAI835 Series	AIO module (4-20mA, 4-channel in /4-channel out isolated-channels)
	AAI143 Series	Analog input module (4 to 20 mA, 16-channel, isolated)
	AAI543 Series	Analog output module (4 to 20 mA, 16-channel, isolated)
	AAI841 Series	Analog I/O module (4 to 20 mA, 8-channel in/8-channel out, non-isolated)
	Digital I/O Module	
	A2MDV843 Series	DIO module (16-channel, isolated)
	ADV159 Series	DI module (32-channel, isolated-channels)
	ADV151 Series	DI module (32-channel 24VDC, isolated-channels)
	ADV559 Series	DO module (32-channel, isolated-channels)
	ADV551 Series	DO module (32-channel, 24VDC, common-isolation)
	ADV859 Series	DIO module (16-channel in/16-channel out, isolated-channels)
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TYPE (Continued)

Analog Digital I/O Module	
A2MMM843 Series	Analog Digital I/O Module (16-channel, Isolated)
Comm. Interface Card	
ALR111 Series	RS-232C comm. interface card
ALR121 Series	RS-422/485 comm. interface card
ALE111 Series	Ethernet Communication Module
ALF111 Series	Field bus interface card
ALP111 Series	PROFIBUS-DPV1 communication module
ALP121 Series	PROFIBUS-DP Communication Module (for FIO)
EB401 Series	ER bus interface card
EC401 Series	ESB bus coupler module
EC402 Series	ESB bus coupler module (for AFV30 2-port) <input type="checkbox"/>
EB402 Series	ER bus interface card
A2EN402 Series	N-ESB Bus Coupler Module (for N-IO, 2-port)
A2EN404 Series	N-ESB Bus Coupler Module (for N-IO, 4-port)
Unit	
ANT10U Series	Unit for Optical Bus Repeater Module (19" Rack Mountable Type)
A2NN30D Series	Node Interface Unit (for N-IO) Exclude DIN mount type
Optical Module	
ANT401 Series	Optical ESB Bus Repeater Master Module for 5km (for N-IO/FIO)
ANT411 Series	Optical ESB Bus Repeater Master Module for 5km to 50km (for N-IO/FIO)
ANT502 Series	Optical ESB Bus Slave Module for 5km (for N-IO/FIO)
ANT512 Series	Optical ESB Bus Slave Module for 5km to 50km (for N-IO/FIO)
Cables	
YCB301 Series	ESB bus cable

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	AKB136 Series	RS-232C null-modem cable
	AKB331 Series	Cable between ADV151/ADV551 and AED5D terminal board
	AKB161 Series	RS-422/485 cable
	YCB141 Series	ER bus cable
	KS1 Series	Signal cable
	KS8 Series	Signal cable
	KS2 Series	Signal cable
	A2KLF00 Series	F-SB Bus Cable
	A2KPB00 Series	Power Supply Cable for Base Plate
TYPE (Continued)	Adaptor	
	A2SAP105 Series	Pulse Input Signal Adaptor (0 to 10kHz)
	A2SDV105 Series	Digital Input Adaptor (24VDC Voltage input, Dry Contact Input)
	A2SDV505 Series	Digital Output Adaptor (24VDC, Current Source : 0.5A)
	A2SDV506 Series	Relay Output Adaptor (24VDC, Dry Contact Output : 0.5A)
	A2SMX801 Series	Pass-through I/O Signal Adaptor (Pass-through I/O Signal)
	A2SAT105 Series	mV/TC/RTD Input Adaptor
	A2SAM105 Series	Current Input/Voltage Input Adaptor
	A2SAM505 Series	Current Output/Voltage Output Adaptor
	A2SMX802 Series	Pass-through I/O Signal Adaptor(With field power output)
	A2EXR001 Series	Shunt Resistor Unit (For A2SAP105)
	Terminal Board	
	A1BA4D Series	Terminal Board for Analog (single and dual-redundant, 16-channel x 1 or 8-channel x 1, DIN rail mount type)
	A1BT4D Series	Terminal Board for Thermocouple (single and dual-redundant, 16-channel x 1, DIN rail mount type)
	A1BR4D Series	Terminal Board for RTD input (single and dual-redundant, 16-channel x 1, DIN
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	A1BD5D Series	rail mount type) Terminal Board for Digital (single and dual-redundant, 32-channel x 1, DIN rail mount type)
TYPE (Continued)	Base Plate	
	A2BN3D Series	Base Plate for Adaptor (for N-IO), Exclude DIN mount type
	A2BN4D Series	Base Plate for Barrier (for N-IO, MTL Barrier), Exclude DIN mount type
	A2BN5D Series	Base Plate for Barrier (for N-IO, P+F Barrier), Exclude DIN mount type
	Others	
	AIP827 Series	USB operation keyboard for HIS
	AIP830 Series	Operation Keyboard for Single-loop Operation
	AIP831 Series	Operation Keyboard for Eight-loop Simultaneous Operation
	AVR10D series	Duplexed Vnet Router (Duplexed communication module, Duplexed power module)
	AW810D Series	Wide Area Communication Router
	TNC-200G Series	Gigabit Ethernet 1000 base-T to 1000 base-SX/LX converter (Taiko Network Communication)
	ET-5ES Series	4 port 10/100 base-TX (RJ45), 1 port 100 base-FX (SIXNET)
	Quint-PS-100	Series Power supply unit (PHOENIX CONTACT)
	A2DCV01 Series	Dummy Cover (for N-IO, I/O module)
	Safety Control and Monitoring System	
	ProSafe-RS comprising the following modules :	
	SCU	
	SSC10S Series*1	Safety Control Unit (19-inch Rack Mountable Type)
	SSC10D Series*1	Duplexed Safety Control Unit (19-inch Rack Mountable Type)
	SSC50S Series*1	Safety Control Unit for Vnet/IP (19-inch Rack Mountable Type)
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	SSC50D Series*1	Duplexed Safety Control Unit for Vnet/IP (19-inch Rack Mountable Type)
	SSC57S Series*1	Safety Control Unit for Vnet/IP-Upstream (19-inch Rack Mountable Type)
	SSC57D Series*1	Duplexed Safety Control Unit for Vnet/IP-Upstream (19-inch Rack Mountable Type)
	SSC60S Series*1	Safety Control Unit for Vnet/IP (19-inch Rack Mountable Type)
	SSC60D Series*1	Duplexed Safety Control Unit for Vnet/IP (19-inch Rack Mountable Type)
	S2SC70S Series*1	Safety Control Unit (for N-IO/FIO, Rack Mountable Type)
	S2SC70D Series*1	Duplexed Safety Control Unit (for N-IO/FIO, Rack Mountable Type)
TYPE (Continued)	NODE	
	SNB10D Series	Safety Node unit for Dual-Redundant ESB Bus (19-inch Rack Mountable Type)
	Analog I/O Module	
	SAI143 Series	Analog Input module (4-20mA, 16-channel, isolated)
	SAV144 Series	Analog Input Module (1 to 5V/1 to 10V, 16-channel, isolated)
	SAT145 Series	TC/mV Input Module (16-channel, isolated channels)
	SAR145 Series	RTD Input Module (16-channel, isolated channels)
	SAI533 Series	Analog Output Module (4-20mA, 8-channel, isolated)
	Digital I/O Module	
	SDV144 Series	Digital Input Module (16-channel, 24V DC, isolated)
	SDV531 Series	Digital Output Module (8-channel, 24V DC, isolated)
	SDV541 Series	Digital Output Module (16-channel, 24V DC, isolated)
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	SDV521 Series	Digital Output Module (4-channel, 24V DC, isolated)
	SDV53A Series	Digital Output Module (8-channel, 48V DC, isolated)
	S2MDV843 Series	Digital I/O Module (16-channel, Isolated)
TYPE (Continued)	Analog Digital I/O Module	
	S2MMM843 Series	Analog Digital I/O Module (16-channel, Isolated)
	Communication Interface Card	
	ALR111 Series	RS-232C Communication Module (2-port, 1200bps to 115.2kbps)
	ALR121 Series	RS-422/RS-485 Serial Communication Module (2-port, 1200bps to 115.2kbps)
	ALE111 Series	Ethernet Communication Module
	S2LP131 Series	Fire and Gas Communication Module
	Unit	
	SNT10D Series	Unit for Optical Bus Repeater Module (19-inch Rack Mountable Type)
	S2NN30D Series	Node Interface Unit (for N-IO), Exclude DIN mount type
	Optical Module	
	SNT401 Series	Optical ESB Bus Repeater Master Module
	SNT501 Series	Optical ESB Bus Repeater Slave Module
	SNT411 Series	Optical ESB Bus Repeater Master Module 5km to 50km (for SSC50X, SSC60X)
	SNT511 Series	Optical ESB Bus Repeater Slave Module 5km to 50km (for SSC50X, SSC60X)
	Relay Boards	
	SRM53D Series	8x2 dry contact outputs (safety relay built-in, M4 terminals)
	SRM54D Series	16 dry contact outputs (safety relay built-in, M4 terminals)
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	SBM54D Series	Relay Board for Digital output : DIN rail mount type (Single and dual-redundant, 16-channel x 1)
TYPE (Continued)	Bus Converter AVR10D Series	Duplexed Vnet Router (Duplexed Communication module, Duplexed Power module)
	Bus Interface Module SEC401 Series SEC402 Series SSB401 Series S2EN402 Series S2EN404 Series	ESB Bus Coupler Module ESB Bus Coupler Module (with 2 ports for SSC60X) ESB Bus Interface Slave Module N-ESB Bus Coupler Module (for N-IO, 2-port) N-ESB Bus Coupler Module (for N-IO, 4-port)
	Terminal Board SEA4D Series	Terminal Board for Analog (16-channel, with ISA Standard G3)
	SED4D Series	Terminal Board for Digital (Single and dual-redundant, 16-channel input or 8-channel output)
	SED2D Series	Digital Terminal Board (Single and dual-redundant, 4-channel x 4)
	SED3D Series	Digital Terminal Board (Single and dual-redundant, 8-channel x 4)
	SBA4D Series	Terminal Board for Analog: DIN rail mount type (Single and dual-redundant, 16-channel x 1)
	SBD2D Series	Terminal Board for Digital output: DIN rail mount type (Single and dual-redundant, 4-channel x 1)
	SBD3D Series	Terminal Board for Digital output: DIN rail mount type (Single and dual-redundant, 8-channel x 1)
	SBD4D Series	Terminal Board for Digital: DIN rail mount type (Single and dual-redundant, 16-channel x 1)
	SBT4D Series	Terminal Board for TC/mV: DIN rail mount type (Single and dual-redundant, 16-channel x 1)
	SBR4D Series	Terminal Board for RTD input: DIN rail mount type (Single and dual-redundant, 16-channel x 1)
	S1BB4D Series	Terminal Board for Analog Input, 3-wire: DIN rail mount type
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TYPE (Continued)

Cable

YCB148 Series
YCB146 Series
YCB301 Series
YCB141 Series
YCB111 Series
AKB611 Series
AKB651 Series
AKB331 Series

AKB136 Series

AKB161 Series

KS1 Series
S2KLF10 Series
S2KPB10 Series

Others

SCB100 Series

SCB110 Series

YCB128 Series
SDCV01 Series
S2DCV02 Series

Interface Card

VI701 Series
VI702 Series
VF701 Series
VF702 Series

V net Terminator (for 10base2 Cable)
T-type Connector of Control Bus for HIS
ESB bus cable
Vnet cable (10Base-2)
Vnet cable (10Base-5)
Signal Cable for RTD input module
Signal Cable (50-50 pins)
Signal Cable (50-50 pins) for connection between SDV144/SDV531/SDV541/SAT145/ and Terminal Board
RS-232C null modem cable for start-stop asynchronous communications (9-25 pins) for connection between ALR111 and RS-232C device
RS-422/rs-485 cable used between ALR side (M4 Terminal) and other side (M3 terminal)
Signal cable
F-SB Bus Cable
Power Supply Cable for Base plate

Wiring Check Adapter for Digital Input (For ETS, with ISA Standard G3)
Wiring Check Adapter for Digital Input (For DTS, with ISA Standard G3)
IRIG (GPS) Terminator
Dummy Cover (for I/O module)
Dummy Cover (for N-IO, I/O module)

Vnet/IP Interface Card*2
Vnet/IP Interface Card*2
Vnet Interface Card*2
Vnet Interface Card*2

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TYPE (Continued)

Base Plate	
S2BN1D Series	Base Plate with disconnecting terminal (for N-IO, 16-channel), Exclude DIN mount type
S2BN4D Series	Base Plate for Barrier (for N-IO, MTL Barrier)
S2BN5D Series	Base Plate for Barrier (for N-IO, P+F Barrier)

APPLICATION

Distributed Control System :
Marine & offshore applications for use in environmental categories ENV2 as defined in LR Type Approval System, Test Specification No. 1-2018 including Test for bridge and deck zone and general power distribution zones.

Safety Control and Monitoring System:
Marine & offshore applications for use in environmental Categories ENV2 for only marked *1 & *2 and ENV 3 for rest of the products, as defined in LR Type Approval System, Test Specification No. 1-2018 including Test for bridge and deck zone and general power distribution zones.

N.B: *1: Where Standard type is provided.

STANDARD

Manufacturer's General Specifications, etc.
Distributed Control System:

GS 33J62A20-01EN	GS 33J60E50-01EN
GS 33J62E10-01EN	GS 33J60E51-01EN
GS 33J62E50-01EN	GS 33J60A10-01EN
GS 33J62F10-01EN	GS 33J60F20-01EN
GS 33J62F20-01EN	GS 33J60F30-01EN
GS 33J62F30-01EN	GS 33J60F50-01EN
GS 33J62F40-01EN	GS 33J60F51-01EN
GS 33J62J10-01EN	GS 33J60F52-01EN
GS 33J62K51-01EN	GS 33J60F60-01EN
GS 33J01A10-01EN	GS 33J60F70-01EN
GS 33J50C10-01EN	GS 33J60G10-01EN
GS 33J50C32-01EN	GS 33J60G11-01EN
GS 33J50C33-01EN	GS 33J60G20-01EN
GS 33J50D10-01EN	GS 33J60G85-01EN

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**STANDARD
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GS 33J50D20-01EN	GS 33J60J10-01EN
GS 33J60E10-01EN	GS 33K50E30-50E
GS 33K55F10-50E	GS 33J60E11-01EN
GS 33J62F40-01EN	GS 33K50E31-50E
GS 33K50F21-50E	GS 33K50F22-50E
GS 33K50G80-50E	GS 33K50F40-50E
GS 33K50F41-50E	GS 33K50J10-50E
GS 33K50C30-50E	GS 33M50C10-40E
GS 33L50C10-40E	GS 33K55C10-50E
GS 33J60H51-01EN	GS 33J62E11-01EN
GS 33J62E12-01EN	

Safety Control and Monitoring System:

GS 32Q01B10-31E	GS 32Q01B20-31E
GS 32Q06J10-31E	GS 32Q06K20-31E
GS 32Q06D10-31E	GS 32Q06D11-31E
GS 32Q06D20-31E	GS 32Q06D21-31E
GS 32Q06D30-31E	GS 32Q06K10-31E
GS 32Q06K11-31E	GS 32Q06L15-31E
GS 32Q06K30-31E	GS 32Q06K40-31E
GS 32Q06L10-31E	GS 32Q06L11-31E
GS 32Q06L20-31E	GS 33K50G10-50E
GS 32Q06M10-31E	GS 33K50C10-50E
GS 33K55C10-50E	GS 33L50C10-40E
GS 33M50C10-40E	GS 33K50D10-50E
GS 32Q06D25-31E	GS 32Q06K51-31E
GS 33K01A20-50E	GS 33K50E31-50E
GS 33K50F21-50E	GS 33K50F22-50E
GS 33K50G80-50E	GS 33K50F40-50E
GS 33K50F41-50E	GS 33K50J10-50E
GS 33K50C30-50E	GS 33M50C10-40E
GS 33L50C10-40E	GS 33K55C10-50E
GS32Q06D25-31E_002	GS32Q06D30-31E_003
GS32Q06J10-31E_005	GS32Q06K11-31E_003

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**STANDARD
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GS32Q06K30-31E_008	GS32Q06K40-31E_006
GS32Q06L10-31E_003	GS32Q06L15-31E_004
GS32Q06L16-31E_004	GS32Q06L20-31E_005
GS32Q06M10-31E_005	GS33J50C10-01EN_001
GS33J50D10-01EN_001	GS33K55C10-50E_002
GS32P01B10-01EN_001	GS32P01B30-01EN_001
GS32P06D10-01EN_002	GS32P06E10-01EN_001
GS32P06F10-01EN_001	GS32P06F20-01EN_002
GS32P06K10-01EN_001	GS32P06K20-01EN_001
GS32P06K30-01EN_001	GS32P06K50-01EN_001
GS32P06K51-01EN_001	GS32P06K60-01EN_001
GS32P06M10-01EN_001	GS32P06P10-01EN_002
GS32Q06D10-31E_005	GS32P06K31-01EN_001
GS32Q01B20-31E	GS33L50C10-40E
GS33M50C10-40E	GS32Q06D20-31E
GS32Q06D11-31E	GS32Q06D21-31E
GS32Q06K10-31E	GS32Q06L11-31E
GS 32P06K52-01EN	

RATINGS

100 to 120Vac, 220 to 240Vac and 24Vdc

OTHER CONDITIOINS

The system is to be installed in accordance with manufacturer's instructions such as noise arrester and/or metal enclosures.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Group Limited of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 13/10102(E13) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 13/10102(E12) to which this extension should be attached.

Certificate No.	13/10102(E13)
Issue Date	18 October 2018
Expiry Date	26 November 2020
Sheet	12 of 12



T. Shigeno
Yokohama Technical Support Office
Lloyd's Register Group Limited

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