Control Unit

F C 1

Operation Instruction Manual

Thank you for purchasing this product.

In this manual, we have shown the important notice in order for you to use the device just and the method of handling this system.

In addition to you read this manual well before the utilization, understanding well, and use.

After you read, in the place where it is seen with anytime, please be sure to keep.

ES0911 K5



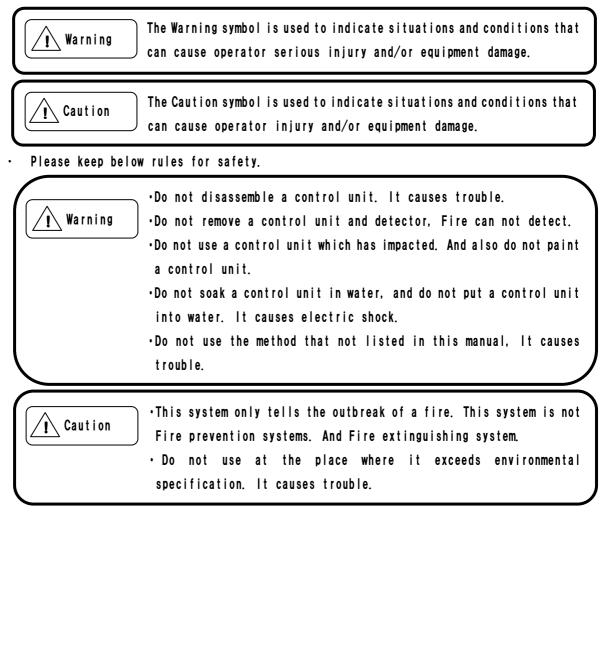
Table of contents

1. Safety instructions	. 3
2. Installation	5
2.2. Installation of control unit	6
2.3. Installation of detector	. 7
2 . 4 . Wiring	. 8
3. Starting the system	. 9
3.2. Control unit	10
3.3. Dimensions	16
3.4. Electric specifications	17
3.5. Environmental specifications	19
3.6. Mechanical specifications	19
4. Procedures/steps to be taken in the event of alarm occurrence	20
4.1. Alarm	20
4.2. Zone Alarm	20
5. Indication of the time of trouble	21
6. Procedures/steps to be taken in the event of trouble occurrence	22
7. Detector	23
7. 1. Connectable detector	23
8. Serial communication facility	24
9. Maintenance and Inspection	25
9.1. Daily Inspection	25
9.2. Periodically Inspection	00
	20
9.3. Functional Inspection	
	28

Fenwal 日本7ェンオー/L株式合社

1. Safety instructions

- Before the using, read this chapter and use correctly.
- The contents which it occurs when you handle erroneously are divided in two of "warning" and "caution". This division states clearly the size and impendence of the harm and the damage.





• A term of a guarantee and a guarantee range

[A term of a guarantee]

In regard to the guarantee of this product, the designated payment of the order main thing after the paying 1 years you guarantee first only the breakdown which occurs in the normal busy condition which you follow the instruction manual.

[guarantee range]

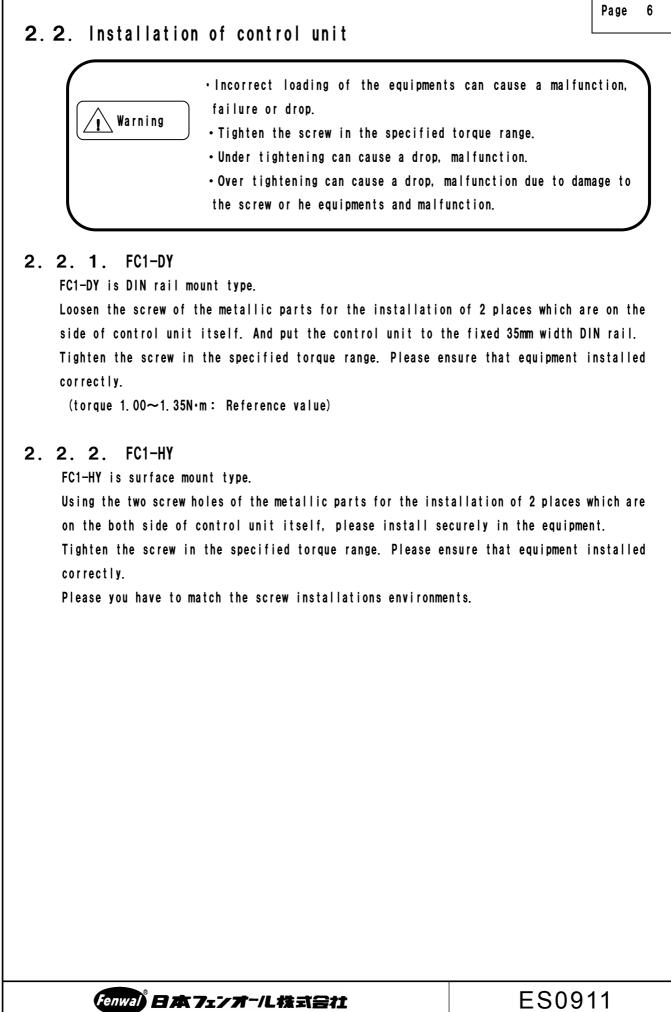
In regard to the breakdown which it occurs in this product with the criticism of payment person side during the above-mentioned guarantee period, it does returns repair in the responsibility of payment person side. However, when it corresponds next, you exclude from the object of this guarantee.

- (1) Fire, earthquake and the damage by wind and flood, breakdown and the loss by the thunderbolt and other natural disasters etc.
- ② After the shipping, transporting and moving and falling etc at your corporation, breakdown and the loss with inadequate handling.
- ③ When cause of breakdown due to the reason other than the payment item.
- ④ Error in regard to use of the consumer, breakdown and the loss with repairing, remodeling other than our company and error connecting.
- ⑤ In case of life of the relay part by wearing and depositing of the relay contact.

Furthermore, the guarantee referred to here being something which means the guarantee of the payment item single unit, pardons the damage which is induced by the breakdown of the payment item.

Fenwal 日本7ェンオー/L株式会社

2. Installation	Page 5	5
2. Installation 2. 1. 1. System configuration & Connection This control unit receives the information of warning or breakdown from the detect is connected. In addition, it is the equipment which informs outside with the in LED and the warning buzzer and the signal contact. Control unit Control unit FC1-DY:Din rail mount FC1-DY:Din rail mount FC1-DY:Din rail mount FC1-DY:Din rail mount FC1-HY:Surface mount DC24V Power supply DC24V DC24V Detector		
① Control unit : Control unit communicates with the detector, Control unit controls the indicating LED and 7seg. the buzzer and signal contact according to the stat detector and itself. FC1-DY:DIN rail mount type FC1-HY:Surface mount type		
② Communication line : It is the line which shares the power supply communication line of the detector.	and the	
③ Detector : The connectable detector is shown with the 7th sec	tion.	
2. 1. 2. Power Supply Power supply of the control unit is DC24V±10%. ·Please prepare for the control unit exclusive power supply a as possible. ·Please reduce the electrical noises on power supply. (Bellow ·If necessary, attach a proper noise filter to the power supply	1Vp-p)	
	I1 ^{отто ко-}	



2. 2. 3. Installation places

The control unit must be installed on conductive place where is grounded. And must be used, When it covers around control unit, electronic buzzer sound hears and becomes difficult to take. In addition, also heat dissipation becomes bad, becomes cause of breakdown. Because of this, usually at least please guarantee the space of width above 10mm substance control unit top and around the guaranty of the passage of air current for heat dissipation as a purpose.

Install and use with environmental temperature and the humidity which are within specification value.
 If the control unit is not correctly installed, it causes the malfunction, the breakdown, and the fall. Please note it especially when using it with a lot of vibrations.
 When the installation screw is loose, it causes the fall, the short-circuit, and the malfunction.
 When the installation screw is tightened too much, it causes the fall, the short-circuits, and malfunctions by the damage of the screw and the control unit.

2.3. Installation of detector

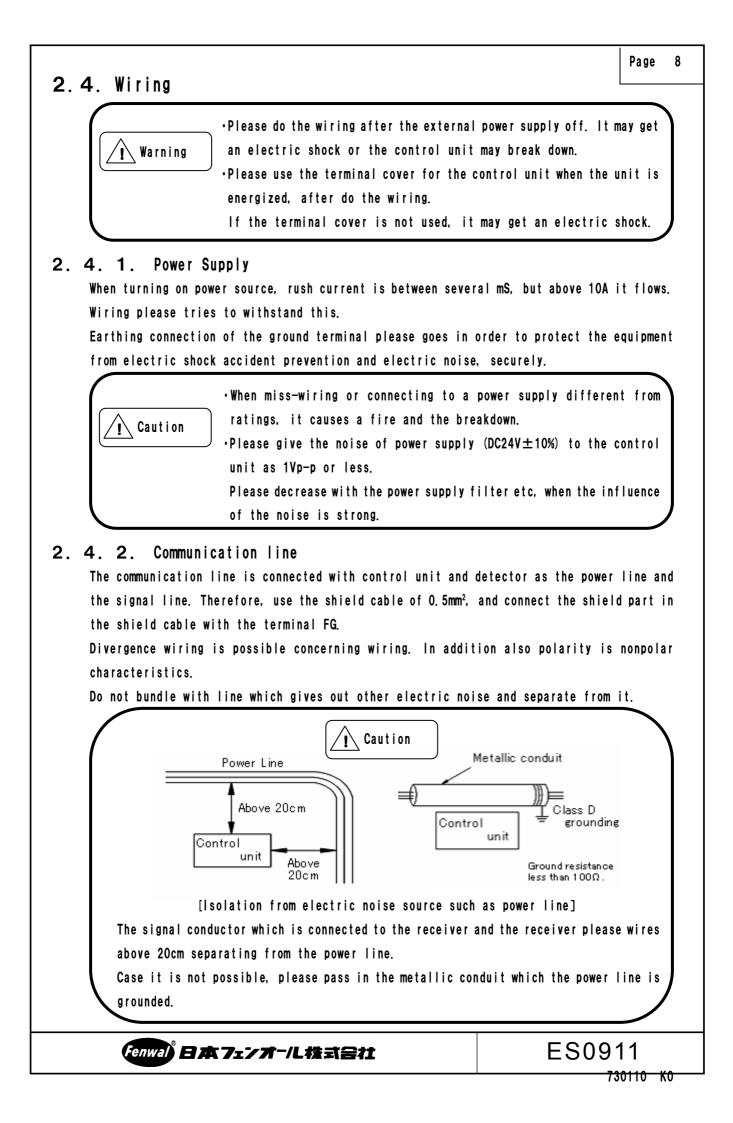
Install the mounting base for detector installation with the two screws M3 which is more than 15mm length.

And install the detector just in the mounting base.



Install and use with environmental temperature and the humidity which are within specification value.





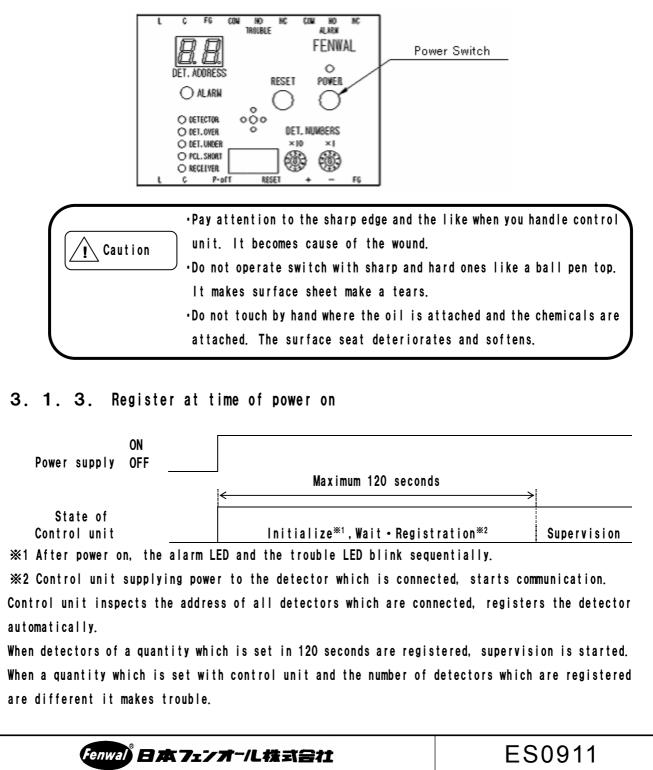
3. Starting the system

3.1.1. Setting of control unit

Please verify whether the number of detectors which it is connected with the DET. NUMBERS switch which is on the panel front is same. When setting is different, trouble indication is lighting.

3. 1. 2. Power on

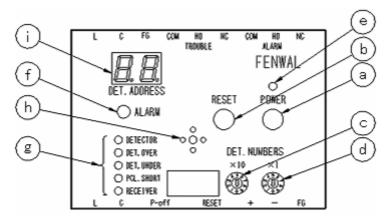
When the supply of power or power switch is pushed, the power light(green LED) lights up, the system operates starts.



3.2. Control unit

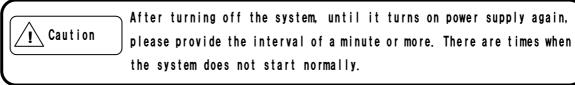
3. 2. 1. Name and function of each section

1 Operation panel



a. POWER : Power supply switch (White)

Supply of power supply is started, or the each operation of POWER switch turns on/off the system.



b. RESET : Reset switch (Blue)

Operation of reset switch resets the alarm LED, alarm signal contact output and buzzer rumble (continual sound).

However, when the detector still has alarm state, control unit for the second time becomes alarm state.

The alarm LED and the trouble LED blink sequentially while resetting the alarm one by one. Also, each segment LED of 7seg LED blinks in order one at a time.

c. DET. NUMBERS×10 : Detector numbers switch (X10)

This is the switch whereby to set the connectable detector numbers by ten digits. (X10)

Since the setting of	this switch is	s recognized only at	the time of
Since the setting of turning the power on	the power is t	o be off in the event	of changing
the setting.			



d.	DET. NUMBERS×1 : Detector numbers switch (X1)	Pag	je	11
	This is the switch whereby to set the connectable detector numbers by ter	n digits. (X	(1)	
	Caution Since the setting of this switch is recognized only turning the power on, the power is to be off in the even the setting.			
e.	POWER: Power Supply indication LED (Green)			
	While power has been turned on, the power light has lit up.			
	When control unit CPU error occurs, the power light it goes out and `E' or ` in 7Seg LED.	E.'is indic	ateo	ł
f.	ALARM: Alarm indication LED (Red)			
	When the detectors are in alarm state, it lights up.			
	Control unit keeps alarm state. Control unit until reset switch is pushe	d even with	wher	۱
	the smoke of the smoke detector is gone, continues to indicate alarm sta	te.		
	However, at the time of zone alarm occurrence, as for the alarm LED blir	ıks. Concer	ning]
	"4.2.Zone alarm ". The zone alarm does not keep with control unit.			
	When the alarm occurs, alarm LED is indicated in preferentially from indi	ication of o	the	r
	things.			
g.	TROUBLE: Trouble indication LED (Yellow)			
	While trouble occurs in the system, the trouble LED which corresponds to	the content	s 01	i
	trouble lights up or blinks.			
	Details of trouble contents please refer to "6. Procedures/steps to be ta of trouble mode".	ken in the e	vent	ł
h.	Buzzer (Embedded)			
	In case of alarm state it rumbles with continual sound. In case of trouble	state it rum	nble:	6
	with intermittent sound.			
	However, at the time of control unit CPU error to continue rumble, the conten in 7Seg LED.	ts are indic	ateo	j
	When the alarm occurs in a trouble state where control is excluded, rumble of the buzzer changes to continu	ual sound fr		
	intermittent sound because of alarm priority indicat	[O N.		J
	Fenwal BA7-1/L株式会社	S0911		

i. 7 Segment LED (Red)

!`

Address of the detector where the alarm occurs is indicated. When the alarm occurs with the plural detectors, the scroll it indicates in the order where the alarm generates the address which is in the midst of alarm occurring 2 seconds. First address indicates the decimal point in simultaneously

When trouble occurs in alarm state, for alarm priority indication, the address where trouble occurs is not indicated.

Address of the detector where trouble occurs is indicated.

When the trouble occurs with the plural detectors, the scroll it indicates in the order where the trouble generates the address which is in the midst of alarm occurring 2 seconds. First address indicates the decimal point in simultaneously

L Caution

Caution

When trouble occurs in alarm state, for alarm priority indication, the address where trouble occurs is not indicated.

At the time of zone alarm occurrence "00" is indicated.

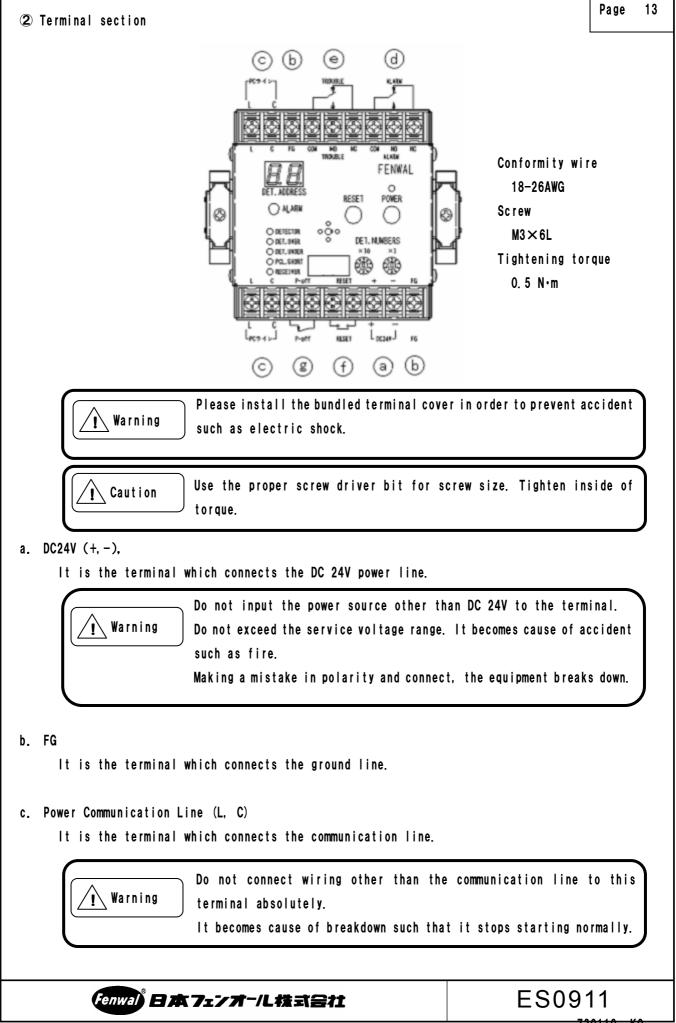
In addition, As for 7seg. LED indication "00" the scroll it indicates in the order where the alarm generates indication and the address indication to which the alarm occurs.

Caution

When the alarm occurs in zone alarm state, the alarm LED from blinking becomes lighting because of alarm priority indication. In addition, As for 7seg. LED indication "00" the scroll it indicates in the order where the alarm generates indication and the address indication to which the alarm occurs.

When control unit CPU error occurs, "E" or "E." indicates. Because this indication is breakdown of control unit, please exchange.





⁷³⁰¹¹⁰ KO

d. ALARM (COM, NO, NC)

At the time of alarm state and power supply stopping/deciding, the alarm contact signal operates.

However, at the time of zone alarm occurrence, as for the alarm contact signal it does not operate.

Alarm contact State of control unit	Between COM and NO	Between COM and NC
Normal supervise	Close	Open
Alarm or Power supply stop	Open	Close
Zone alarm	Close	Open

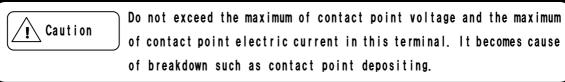


Do not exceed the maximum of contact point voltage and the maximum of contact point electric current in this terminal. It becomes cause of breakdown such as contact point depositing.

e. TROUBLE (COM, NO, NC)

At the time of trouble state and power source stopping/deciding, trouble contact signal operates.

Trouble contact		Between
State of control unit	COM and NO	COM and NC
Normal supervise	Close	Open
Trouble or Power supply stop	Open	Close



f. RESET

With external non voltage contact input, control unit resets.

	\cdot Do not connect other than the non voltage contact point to this
I Warning	terminal absolutely. It becomes cause of breakdown such that it stops
	starting normally.
	•During signal inputting, control unit becomes non supervisory state.
	When reset action is verified, please stop the input of the signal.

g. P-off

When power source of control unit is off, the non voltage contact point is output.

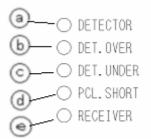
State of control unit	contact
Power on	Open
Power off	Close



Do not exceed the maximum of contact point voltage and the maximum of contact point electric current in this terminal. It becomes cause of breakdown such as contact point depositing.

Fenwal 日本7ェンオー/L株式会社

3 About Trouble indication



a. DETECTOR

It lights up when sensitivity revision over or inside the detector, trouble occurs in the detector. (Refer to "6. Procedures/steps to be taken in the event of trouble occurrence") In addition, address of the detector where trouble occurs is indicated in 7seg LED.

b. DET.OVER

It lights up when the number of detectors which have been recognized is greater than specification at the detector number switch of control unit

c. DET. UNDER

It lights up when the number of detectors which have been recognized is less than specification at the detector number switch of control unit.

Control unit, the numbers of detectors recognizing few, lights up similarly even when being disconnected of the communication line and broken wire inside the detector.

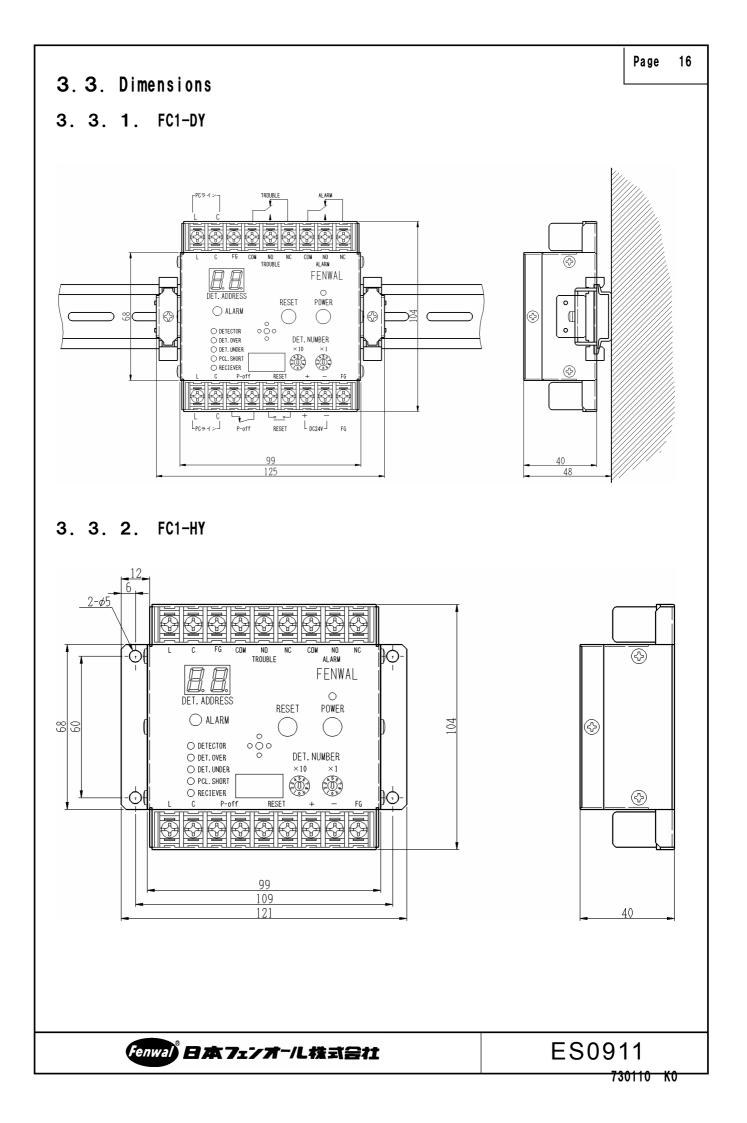
d. PCL. SHORT

When the communication line is short, it lights up.

e. RECEIVER

It lights up when specification of detector number switches of control unit 0 or 32 or more. In this case of control unit trouble, please exchange.





3.4.	Elec	tric specif	ications				Page 17	'
	(1) (2) (3) (4)	Name of item model Rating Range of worki voltage	: : :	Control unit FC1-DY FC1-HY DC24V 0.15A DC24V ±10%				
		! Warning	much as po ∙Please giv as 1Vp-p o	ve the noise in the pow or less. rrespond with the power	er supp	ly to the cor	ntrol unit	
	(5)	Connectable de Numbers	tector :	Up to 31.				
		I Caution		t connect the detector o to watch normally.	of the s	ame address.	lt becomes	I
	(6)	Method of sett connectable de counts		lt sets making use of panel. When setting up 0 or 32, up as a trouble state.	, the ti		-	
	(7)	Set up for rec the alarm sign	-					
	(8)	External wirin resistance	g :	Less than 10Ω				
		I Caution		ring value of resistand sion stops impossible			e above 10	
	(9)	Start up time	:	After the power on and start of supervision.	d after	the maximum	of 2 minutes	
	(10)	Signal contact	output :	Alarm contact output Contact	t type	Between	Between	1
				State		COM and NO	COM and NC	
				Normal supervision Alarm or Power off		Close	Open	-
				Zone alarm		Open Close	Close Open	-
			:	Trouble contact output	t			1
				Contact		Between	Between	1
				State		COM and NO	COM and NC	
				Normal supervision		Close	Open	
				Trouble occurs or Pow	erott	Open	Close]
	Fenv		/オー/し株:	は合社		ES09	911	
							730110 K0	

				State Power on Device off	Contact Open Close
				Power off	01056
				supply Off	•
				contact Close	t1=Less than 1 t2=Less tahn 1
				Capacity of contact DC30V 1A AC12 loading	25V 0.3A Resi
(11)	Sound	ofalert	:	Electronic buzzer.	
				Alarm sound : Continual sound trouble sound : Intermittent sou	ınd (continual
(12)	On/off	of power	:	priority) At the time of power switch operatin	
	switch			is turned on again, please take the or more.	
				When while the power switch is on m	nain nower sou
				stopped directly, when main power	
	Warning				source is tur 1 minute or
	Warning		ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or
	Warning	Electric sh	ock,	stopped directly, when main power again, please take the interval of ble the equipment. short circuit, there are times when i	source is tur 1 minute or

Fenwal 日本7ェンオー/L株式会社

	vironmental s	pecif	icati	ons			
(1)	Working temperat	ure rang	e :	0℃~60°	C		
(2)	Storage temperat	ure rang	e :	−20°C~	∙70℃		
(3)	Working humidit	y range	:	30~85%	RH		
<u></u>	occu	ır.		the volat breakdown			
	chanical spec						
(1)	External form	:		D104×H40 D104×H40			
(2)	Main material	:	SPCC t	1.0 black	paint		
	Mass	:	Approx				

Fenwal 日本7ェンオー/L株式会社

4. Procedures/steps to be taken in the event of alarm occurrence

When this system inspects abnormality, the following warning is output from control unit. When warning is output, verifying circumstance, please do necessary disposal.

4.1. Alarm

The alarm occurs when the alarm signal (AON) from the detector is received by the control unit.

- (1) The alarm LED lights up.
- (2) The buzzer (continual sound) rumbles.
- (3) The alarm signal contact is output.
- (4) The alarm detector address is indicated in 7seg LED indication.

4.2. Zone Alarm

The zone alarm is one of alarm information. That occurs when address recognition becomes impossible in communication obstacle and control unit or breakdown of the detector,

- (1) The alarm LED blinks.
- (2) The buzzer (continual sound) rumbles.
- (3) "00" is indicated in 7seg LED indication.

The state indicating LED of the detector at the time of alarm state and zone alarm state blinks 1 times at a time in 2 seconds.



5. Indication of the time of trouble

When this system inspects trouble, the following warning is output from control unit.

- (1) The trouble LED which responds to the contents of trouble lights up.
- (2) The buzzer (intermittent sound) rumbles.
- (3) The trouble signal contact is output.
- (4) The trouble address of the detector which occurs is indicated in 7seg LED indication.

When the primary factor of trouble is a detector, the state indicating lamp of the detector which is trouble state (red LED) it goes out. When warning is output, verifying trouble, to following "6, the coping method at the time of trouble occurrence", please correspond.

When there is a trouble primary factor in the detector, the state indicating LED (red LED) of the detector which is trouble state goes out.

When warning is output, verifying the contents of trouble, to following "6. Procedures/steps to be taken in the event of trouble occurrence", please correspond appropriately.





	Control	unit indications	i	Smoke detector	Contents of trouble	Confirmation Items
POWER	TROUBLE	7 Seg. LED	Buzzer	LED		
_ighting	DTECTOR LED Lighting	Corresponding detector's address is indicated	Intermittence rumble	Blinking 10 seconds interval or Corresponding detector's LED turns off.	-Communication line power failure -Internal abnormality of detector -Smoke detector sensitivity revision over	-Replace the detector.
	OVER LED Lighting	None	Intermittence rumble	Blinking 10 seconds interval	The number of detectors which have been recognized is greater than specification at the detector number switch of control unit.	Make the specificatio of the detector numbe switch and the number o connected detector equal.
	UNDER LED Lighting	None because the disconnection before the power supply on cannot recognize the address, or When the disconnection is detected after the power supply on, the broken wire detector address is displayed.	Intermittence rumble	Blinking 10 seconds interval or Turning off	-The number of detectors which have been recognized is less than specification at the detector number switch of control unit. -Broken wire of communication line -Broken wire inside detector -Falling off of detector	-Make the specificatio of the detector number switch and the number o connected detectors equal. -Make sure of wiring which is to be correctl done. -Insert correctly the communication line int the Terminal Block of control unit. -Insert correctly the communication line int the Terminal Block of th detector. -Please verify whether the communication line has not been disconnected.
	SHORT LED Lighting	None	Intermittence rumble	Turning off	-Communication line short circuit	The communication line is short. Just please wire.
	RECIEVER LED Lighting	None	Intermittence rumble	Blinking 10 seconds interval	-Specification of detector number switches of control unit 0 or 32 or more. -The power switch or flash memory of control unit is abnormal.	-Please verify the detector number switch setting of control unit -In case of control uni trouble, please exchange.
Turning off	Turning off	'E' or 'E.' indication	Continual rumble	Turning off	Control unit CPU error.	Because it is breakdow of control unit.
	C C	aution in Th	form to the e time of tro	nearby Fenwal uble occurrend	ing, case problem is r Controls of Japan Co ce, when you redo wir Irning off power.)., Ltd.

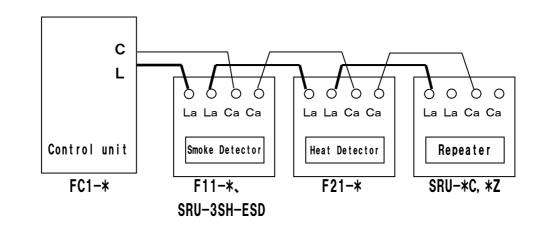
730110 KO

Page

22

7. Detector

The detector being connected by control unit, watches abnormality.



7.1. Connectable detector

The following detector is connection possible in control unit.

As for details please inquire the function which we would like you to use to our company Sales Div.

Name	Model	Function	Remarks
Smoke Detector	F11-*	-photoelectric expression -official operation density 5%/m	Mounting base (FBR-Y)
Smoke Detector	SRU-3SH-ESD	-photoelectric expression -official operation density 5%/m	Mounting base (FDB-ADS)
Heat Detector	F21-*	-Fixed-temperature type -Alarming Fixed temperature range is 70℃ (158F)	Mounting base (FBR-Y)
Repeater	SRU-*C	Non voltage contact supervision	Installation metallic parts
Repeater	SRU-*Z	-Non voltage contact supervision -DC24V/1A contact output	-DC24V power supply -Installation metallic parts

Fenwal 日本7ェンオー/L株式会社

8. Serial communication facility

This control unit has a serial communication function. Please inquire about this facility to the Fenwal Controls of Japan Co., Ltd. Tokyo headquarters.

Fenwal 日本7ェンオー/L株式合社



9. Maintenance and Inspection

9.1. Daily Inspection

The items that must be inspected daily are listed in bellow Table.

No.	Item		Object	Inspection	Method			1
<u>NO.</u>	Installat	ion	-	Inspection	Method Move the	Judgment Crit		/ nten the screws.
I	Installat	1 UII	Common	Looseness, rattling	move the module to	installed	-	e modules are
				rattring	check.	solidly.		fix it with
							screws	
2	Appearanc	e	Common	Dirt and	Check	Dirt and for		e and clean.
				foreign	visually.	matter must n	-	
				matter.	_	present.		
				Damage.	Check	There is no da	image Equipm	nent is
					visually.	on the module	-	nged in
								deration of the
								ence on the
0	Wining		0	Dama za	Ohaak	Those is no de		rmance.
3	Wiring		Common	Damage.	Check visually.	There is no da on the wires.	-	ing by rmity wire.
				Dirt and	Check	Dirt and fore		e and clean.
				foreign	visually.	matter must n	-	e allu cieali.
				matter.	visuariy.	present on th		
				matter		terminals.	•	
				Looseness	Retighten.	Screws should	not Retig	nten the
				terminal		be loose.		nal screws with
				screws.				roper torque.
4	Behavior	Normal	The	Power LED	Check	The LED mus		e refer to
		Supervision	Control		visually.	ON. (Green)	sectio	on 6.
			unit	The rest of	Check	The LED mus	t be	
				LED except	visually.	Off.		
				the Power LED	Listening.	The buzzer mu		
				Buzzer	Listening.	off.	sibe	
			The	State	Check	Blinking 10	Please	e refer to the
			Detector	indic1ation	visually.	seconds inter		s manual for the
				LED			detect	
		Warning	•Please d the powe shock.	electric shock lo the cleanin r supply off. oak a detector	g and the in If not the po	wer supply of	f, it may get	an electric
		Ountier	•Over tig	ghtening can htening can ca	use a drop, r			to the screw
	(/! \	Caution	or equip	ments and mal	function.			
			•Please u	se the dry clo	th or wring	the water ou	t tightly c	loth for the
			cleaning					
			-			· -	-	
			•After Cl	eaning, Do no	t leave a f	oreign substa	nce such as	s sawdust or
			wiring	debris on a	detector.	Such debris	could cause	e erroneous
	\sim		operatio	n .				
	(enwal [®] 🗖 🗖	57 -77	-/_株式会	**		ES0	911
								730110 KO

9.2. Periodically Inspection

The items that must be inspected one or two times every 6 months to 1 year are listed below. When the equipment is moved or modified, or layout of the wiring is changed, also perform this inspection.

No.	ltem	Object	Inspection	Method	Judgment Criteria	Remedy
1	Ambient temperature	Common	Within the	Temperature	In the	Changed to the
			specification	measurement	specification of	temperature
					each equipment	within the
2	Ambient humidity	Common	Within the	Humidity	In the	specification. Changing at the
2	Ambrent numraity	Common	specification	measurement	specification of	humidity within
			Specification	ille a su i eille il t	each equipment	the
						specification.
3	Atmosphere	Common	Existence of	Gas	There must be	Volatility and the
_			volatility	measurement	neither volatility	causticity gas of
			and		nor a causticity	atmosphere are
			causticity		gas.	excluded.
			gas			
4	Power voltage	Common	In the ratings	Voltage	In the ratings of	Changed to the
				measurement	each equipment	voltage within the
_		-				ratings.
5	Installation	Common	Looseness,	Move the	The module must be	Retighten the
			rattling	module to	installed solidly.	screws.
				check.		lf the modules are loose, fix it with
						SCREWS.
6	Appearance	Common	Dirt and	Check	Dirt and foreign	Remove and clean.
Ŭ	Appearance		foreign	visually.	matter must not be	
			matter.		present.	
			Damage.	Check	There is no damage	Equipment is
			-	visually.	on the modules.	exchanged in
						consideration of
						the influence on
			_			the performance.
7	Wiring	Common	Damage.	Check	There is no damage	Rewiring by
				visually.	on the wires.	conformity wire.
			Dirt and	Check	Dirt and foreign	Remove and clean.
			foreign	visually.	matter must not be	
			matter.		present on the	
			Looseness	Retighten.	terminals. Screws should not	Retighten the
			terminal	הכנוטוונטו.	be loose.	terminal screws
			screws.			with the proper
						torque.
8	Detector Number	The	The same	Confirmation	The setting and the	The setting is
	setting	Control	number as	of number of	number of	matched to the
		unit	detector	detectors	detectors actually	number of
			installed	actually	installed are the	detectors
				installed.	same.	actually
						installed.

Fenwal 日本7ェンオー/L株式合社

							Page	27
No.	ltem		Object	Inspection	Method	Judgment Criteria	Remedy	
9	Behavior	No rma l	The	Power LED	Check	The LED must be	Please refer	t o
		Supervision	Control		visually.	ON. (Green)	section 6.	
			unit	The rest of LEDexcept the	Check visually.	The LED must be Off.		
				Power LED	visually.	UTI.		
				Buzzer	Listening.	The buzzer must be off.	-	
				Signal	Signal check	The same output as	Please exchange	;
				contact		「3. 2. 1. ②d. ∼g. 」	the control un	it.
			The	output	Chack	Dlinking 10		
			The Detector	State indic1ation	Check visually.	Blinking 10 seconds interval	Please refer to the user's man	
			Delector	LED	visually.	Seconds Interval	for the detecto	
		Function	Common		o [[] 9.3 Function	nal Inspection」		
						••• =		
		_Warning	•Please of the pow electri	er supply off. c shock.	and the incre If not the	ase tightening of t power supply off, I do not put a detect	it may get an	
		Caution	 Over tight or equipt Please ustication cleaning After Clains wiring constraint Operation Do not constraint 	ments and malf se the dry clot eaning, Do not lebris on a d n. lean with a sol	se a drop, malf unction. h or wring the leave a fore etector. Sucl vent such as	unction due to dama e water out tightly ign substance such h debris could ca a ph-balanced dete the detector surfa	r cloth for the as sawdust or use erroneous rgent, Bleach,	

9.3. Functional Inspection

This system should not confirm operation actually applying smoke and heat, because each equipment confirms the operation autonomous.

The detector connected with the control unit and the control unit communicates regularly. Therefore, when trouble state of the control unit, the communication with the detector stagnates and alarm and trouble state in the detector, the control unit is automatically displayed in it.

The state of the detector is regularly confirmed by the automatic examination function of the detector's function, and the detector informs to the control unit automatically when alarm or trouble occurs.

The procedure and the method of confirming the communication at the control unit and the detector Periodically Inspection are shown here.

When this signal is being use etc., please contact the p •Functional Inspection will with the number of detecto •With the number of detector LED is ending, it may be F	Power LED The LED must be ON. (Green) The rest of LED The LED must be Off. except the Power LED Buzzer The buzzer must be off. Signal contact Not output output
2 Starting Functional Inspection Pushing of the control unit •Functional Inspection is control unit. •If the control unit detects trouble contact output of When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector LED is ending, it may be F	The rest of LED except the Power LEDThe LED must be Off.BuzzerThe buzzer must be off.Signal contactNot output
2 Starting Functional Inspection Pushing of the control unit • Functional Inspection is of control unit. • If the control unit detects trouble contact output of When this signal is being use etc., please contact the p • Functional Inspection will with the number of detector • With the number of detector LED is ending, it may be F	except the Power LED Buzzer The buzzer must be off. Signal contact Not output
2 Starting Functional Inspection Pushing of the control unit •Functional Inspection is of control unit. •If the control unit detects trouble contact output of When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector the number of detector LED is ending, it may be F	Power LEDBuzzerThe buzzer must be off.Signal contactNot output
2 Starting Functional Inspection Pushing of the control unit •Functional Inspection is control unit. •If the control unit detects trouble contact output of When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector LED is ending, it may be F	Buzzer The buzzer must be off. Signal contact Not output
2 Starting Functional Inspection Pushing of the control unit •Functional Inspection is of control unit. •If the control unit detects trouble contact output of When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector the number of detector LED is ending, it may be F	Signal contact Not output
2 Starting Functional Inspection Pushing of the control unit •Functional Inspection is of control unit. •If the control unit detects trouble contact output of When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector the number of detector LED is ending, it may be F	output
2 Starting Functional Inspection Pushing of the control unit •Functional Inspection is of control unit. •If the control unit detects trouble contact output of When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector the number of detector LED is ending, it may be F	ναιμαι
2 Starting Functional Inspection pushing of the control unit The pushing of the control unit • Functional Inspection is control unit. • If the control unit detects trouble contact output of When this signal is being use etc., please contact the p • Functional Inspection will with the number of detector LED is ending, it may be F	State Blinking 10 seconds
pushing of the control unit control unit •Functional Inspection is control unit. •If the control unit detects trouble contact output of When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector •With the number of detector •With the number of detector •ED is ending, it may be F	
Control unit unit •Functional Inspection is a control unit. •If the control unit detects trouble contact output of When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector LED is ending, it may be F	Alarm LED Each LED blinks
 Functional Inspection is a control unit. If the control unit detects trouble contact output of When this signal is being use etc., please contact the p Functional Inspection will with the number of detector With the number of detector LED is ending, it may be F 	ol Trouble LED sequentially one by one.
Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector LED is ending, it may be F	7seg. LED
Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution Caution When this signal is being use etc., please contact the p •Functional Inspection will with the number of detector LED is ending, it may be F	1309. LLD
is delayed when the contro Confirm this system return	he control unit will operate. d by the alarmoutput of an external system rsons concerned beforehand. end in about 1~2 minutes, but it changes s. s. e, even if blink of alarm LED and trouble nctional Inspection. r pushing a reset switch. Correspondence unit's trouble.

					Page 29
3	Confirm this system returns to the state of normal supervision.	Check the display of the	The control	Power LED	The LED must be ON. (Green)
		control unit, over two	unit	The rest of LED except the	The LED must be Off.
		minutes.		Power LED Buzzer	The buzzer must be off.
				Signal contact output	Not output
			The	State	Blinking 10 seconds
			detector	indic1ation LED	interval
	Fun	ctional Inspectio	n.		
				•	

Fenwal 日本7ェンオー/L株式会社



1 O. Disposal

This product is as general industrial waste disposal. Disposal methods are specific criteria depending on each municipality.

11. Support

Please inquire about this control unit to the Fenwal Controls of Japan Co., Ltd. Tokyo headquarters.

Fenwal Controls of Japan Co., Ltd. 1-5-10 lidabashi Chiyoda Tokyo, 102-0072 Japan

Tokyo headquarters : +81-3-3237-3565

