# Manual

# Address Programmer EV-AD2

Before using, please read this manual carefully and use correctly.

If the EV-AD2 is modified or dismantled, this will invalidate any warranty.

Before use, please read this manual so that you use the EV-AD2 correctly.

Keep this manual where it is easily accessible.

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## **CAUTION!**

If the EV-AD2 is used incorrectly, there is a possibility of injury or damage to property.

- Use only the power supply specified. Use of any other power supply could cause equipment damage, electric shock or fire.
- The EV-AD2 must be switched [OFF] when connecting or disconnecting the battery.
- Do not dismantle or modify the EV-AD2.
- Keep the EV-AD2 away from contact with water. It could cause equipment damage, electric shock and fire.
- Do not immerse the EV-AD2 in water.

# NOTICE!

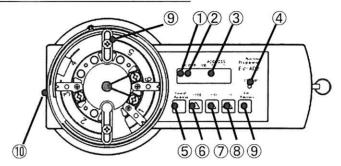
If the EV-AD2 is used incorrectly, the equipment could function incorrectly and property could be damaged.

- Avoid subjecting the EV-AD2 to excessive vibration or shock.
- If the EV-AD2 is to be stored for any length of time, the batteries should be removed from the compartment.
  - This avoids the batteries leaking.
- Do not leave the EV-AD2 in direct sunlight, near hot surfaces, or in areas where magnetic or electromagnetic waves are generated.
- Do not mix batteries of different types or capacity.
- Avoid using in conditions of extreme humidity or temperature.

# 1. Description

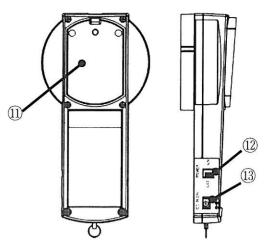
The EV-AD2 address programmer is used to set the address of analogue addressable devices using the Evolution communications protocol.

#### 2. Part name and function



[Display, Controller]

1	Completed LED	Lit when programming of new
	(Green)	address is completed.
2	ERROR LED	Lit when programming of new
(2)	(Orange)	address could not be completed.
3	7	This display's the address,
(3)	7segment LED	customer code or type code.
		When the power switch is ON, this
4	POWER LED	LED will be lit.
4)	(Green)	If the programmer is reporting
		"Low battery", it will blink.
(5)	SEARCH SW	To start transmission and find the
(3)	SEARON SW	address of the detector / module.
6	+100 SW	Increase address by one hundred
6	+10 SW	Increase address by ten.
7	+1 SW	Increase address by one.
	CET CW	To write the address into the
8	SET SW	device
9	Base	For connecting the detector
10	RJ45 Socket	For connecting the module



[Bottom Battery box]

[Side Switch]

11)	Battery Box	Battery compartment for PP3 non-rechargeable alkaline batteries
(12)	POWER SW	To turn the EV-AD2 ON or OFF.
13	Plug adaptor	For the AC power unit (not supplied)

#### 3. STAND-BY MODE

EV-AD2 will switch to STAND-BY MODE for saving battery power if there is no key operation for more than one minute after finishing changing address of device.

During the STAND-BY MODE, 7segment is blank. Power LED is lit.

To return EV-AD2 from STAND-BY MODE press any key.

#### 4. Instruction

- 1. EV-AD2 requires two 9v PP3 batteries.
  - Before inserting the batteries, confirm the EV-AD2 is switched off and check polarity of battery, or damage could result.
- Turn the power switch ON.
  - For one second, all LED's are lit and the buzzer sounds.
- 3. Plug the device onto the base.
- 4. Press the [Search] Key
  - Buzzer sounds, then the EV-AD2 starts transmitting to the detector.
  - Do not remove the detector when transmitting, or damage could result.
- The 7 segment LED reads [Customer code], [Type of detector], [Address] in turn.
  - The buzzer sounds, ERROR LED lights and the 7 segment LED display's an ERROR CODE when an unsupported or defective device is connected.

08.11A

$$0.0 \ 1 \rightarrow 1 \ 2.3 \rightarrow 0 \ 0 \ 3.$$

Customer code

Type of detector [Note - Dot position]

Address

The 7 segment LED distinguishes the Customer Code, Type and Address by the dot position in the LED.

The information displayed by the 7 segment LED cycles every second and stops whilst displaying the [address] at the end of the second cycle.

Pressing any key at any time during the information collection cycle, forces the EV-AD2 to display the address, and await new address selection.

- 6. +100, +10, +1 keys are used to select the new address.
- 7. Press the [Set] key
  - The buzzer sounds, and all LED's are turned off. The EV-AD2 then starts transmitting to the detector.
  - Do not remove the detector.
- 8. The 7 segment LED shows the new address and "complete" LED lights.

If an unsupported or defective device is connected the buzzer sounds, ERROR LED is lit and the 7 segment LED reads ERROR CODE.

 To continue changing the address for another detector. change the detector and then repeat from paragraph 3.
To finish changing addresses, turn the POWER SW off.

### 5. Specification

Product name	EV-AD2
Power Supply	DC18V [2 × PP3 Type Alkaline Batteries] (Not supplied). DC24V[using AC power unit]
Operating Temp	0[° C] to +40[° C]
Humidity	Up to 85%RH(non condensing)
Weight	Approximately 360g (Without battery)
Test device	1 EV protocol device at a time

# 6. Disposal

Please follow local codes or regulations, if you need dispose the EV-AD2 or the batteries.

# 7. ERROR CODE

E01	Receive frame Error		
E02	Receive date bit Error		
E03	No communication		
E04	Checksum Error		
E10	Write new address Error		
E11	EEPROM Error		
E20	Step-up transformer trouble or over current by		
	short circuit of signal line.		
	While ERROR CODE "E20" is displayed ,the		
	EV-AD2 will switch to "STAND-BY MODE" to		
	prevent damage.		
E21	Low battery trouble		
	While ERROR CODE "E21" is displayed ,the		
	EV-AD2 will switch to prevent damage. Please exchange new batteries.		
E22	Low battery warning		
	Presently changes to "Low battery trouble".		
	Please fit new batteries.		