

4-DIGIT LOOP POWERED INDICATOR
 (outdoor enclosure, intrinsically safe/explosion-proof)

MODEL **FXE-B**

BEFORE USE

■ SAFETY PRECAUTIONS

Thank you very much for your purchase of the Fuji FXE Loop Powered Indicator. Before use, please check contents of the package you received as outlined below.

If you have any problems or questions with the product, please contact Fuji's Sales Office or representatives.

■ PACKAGE INCLUDES:

- Loop powered indicator.....(1)
- Mounting screws
 - Bolt (M8 × 15).....(4)
 - Spring washer for M8(4)
- Unit label (1) sheet
- Mounting bracket assembly (optional)
 - Mounting bracket.....(1)
 - M10 U-bolt.....(2)
 - Nut for M10.....(4)
 - Spring washer for M10(4)

■ MODEL NO.

Confirm Model No. marking on the product to be exactly what you ordered.

■ INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

When using this product in potentially explosive atmosphere or hazardous (classified) location, you have to follow the safety procedure to install it. Please refer to "SAFE INSTALLATION MANUAL" for each type of certification.

POINTS OF CAUTION

■ CONFORMITY WITH EU DIRECTIVES

- The actual installation environments such as panel configurations, connected devices, connected wires, may affect the protection level of this unit when it is integrated in a panel system. The user may have to review the CE requirements in regard to the whole system and employ additional protective measures to ensure the CE conformity.

■ GENERAL PRECAUTIONS

- Before you remove the module, turn off the input signal for safety.

■ ENVIRONMENT

- Do not install the module where it is subjected to continuous vibration. Do not subject the module to physical impact.
- Environmental (non-hazardous location) temperature must be within -40 to +85°C (-40 to +185°F) with relative humidity within 0 to 95% RH in order to ensure adequate life span and operation.
- For use in a hazardous location, be sure that the environmental temperature is within the temperature class required for the area.

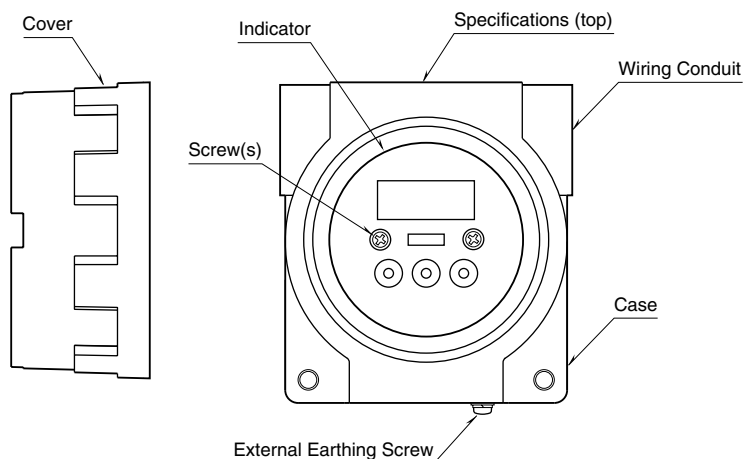
■ WIRING

- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.
- When the unit is used in an environment where inductive noise interference is expected, ground the earthing terminal.

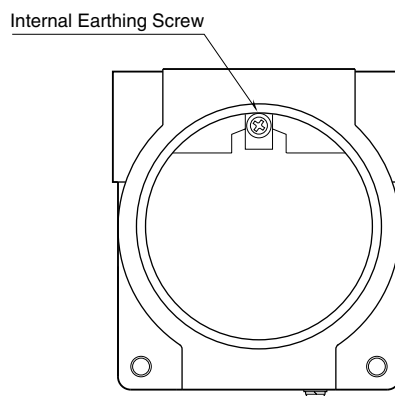
■ AND

- The module is designed to function as soon as the input signal is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

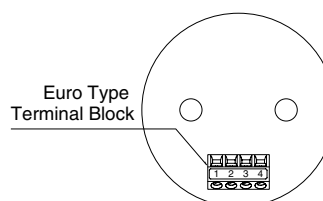
COMPONENT IDENTIFICATION



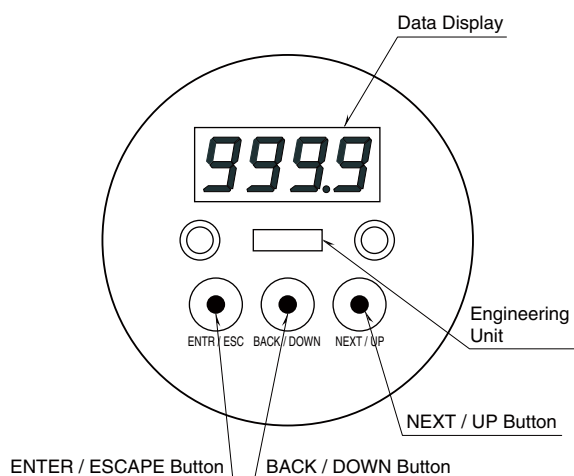
• When the indicator is removed



• Rear view of the indicator



INDICATOR TOP VIEW



ENTER / ESCAPE Button

ENTER: Used to call up the program menu and to apply parameter changes. Press for longer than 2 seconds.

ESCAPE: Used to cancel menu selections and to cancel parameter changes. Push for a brief period.

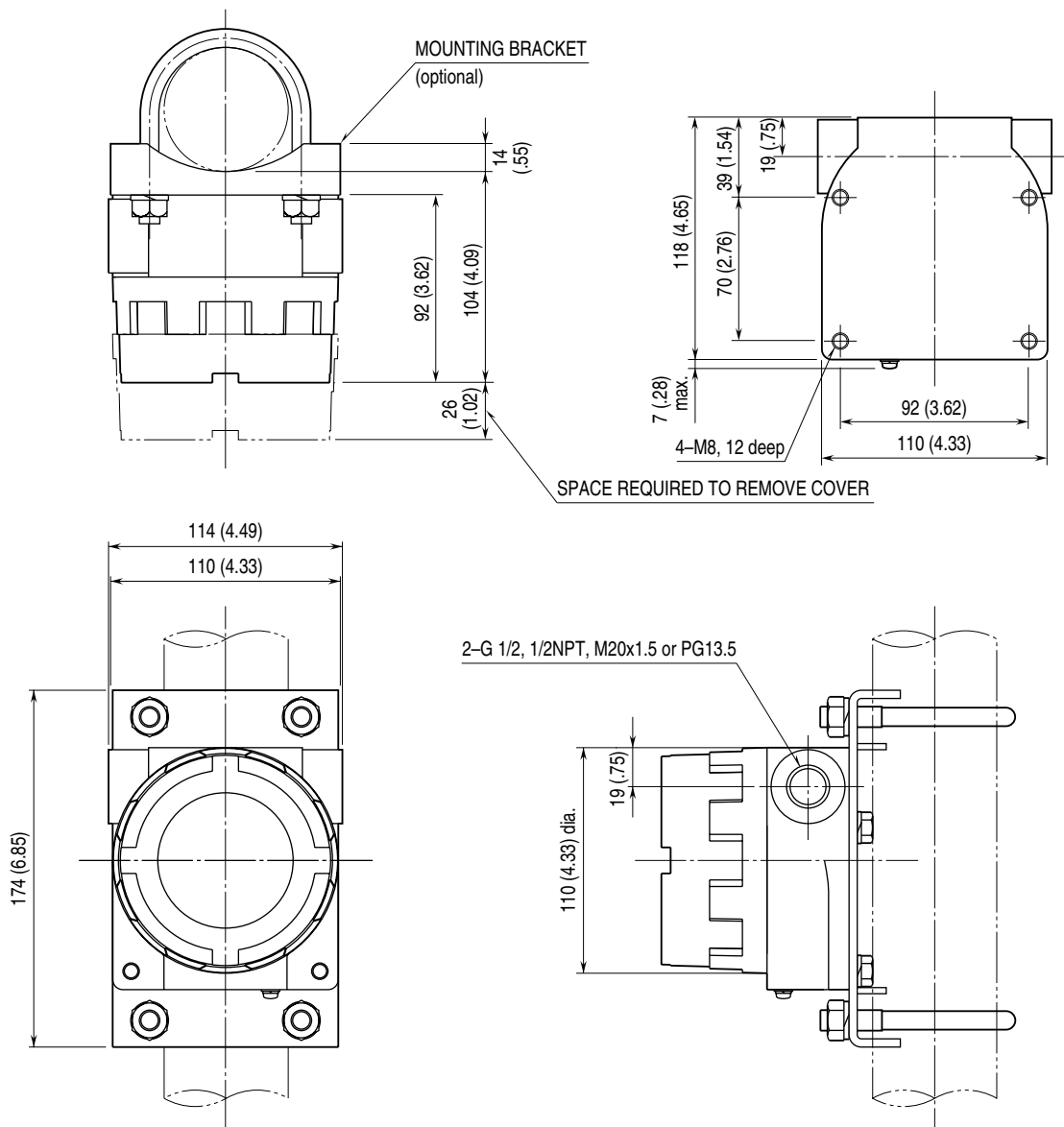
BACK / DOWN Button: Used to select a menu item or to decrease parameter values.

NEXT / UP Button: Used to select a menu item or to increase parameter values.

• **How to Reset All Parameters to the Factory Setting**

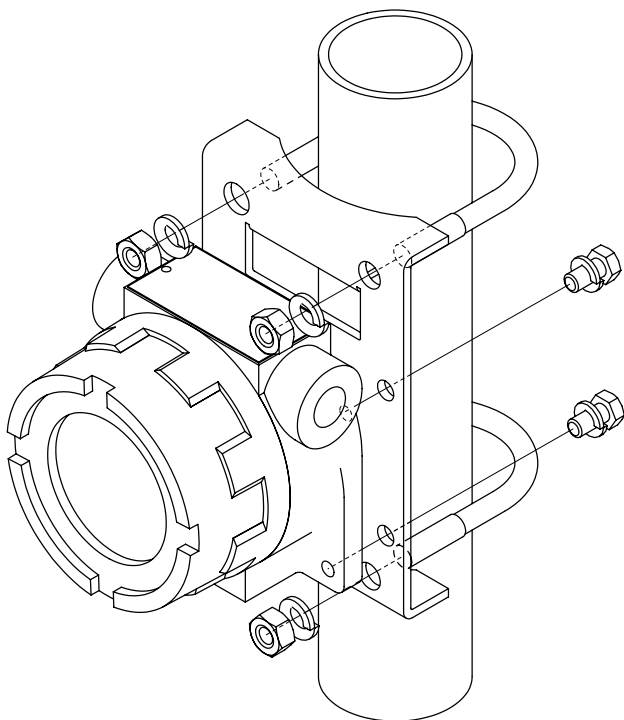
Turn off the power supply to the module. In pressing all the three control buttons at once, turn it on. When a message appears on the data display, press ENTER. If you want to cancel the procedure, turn the power supply off.

EXTERNAL DIMENSIONS unit: mm (inch)

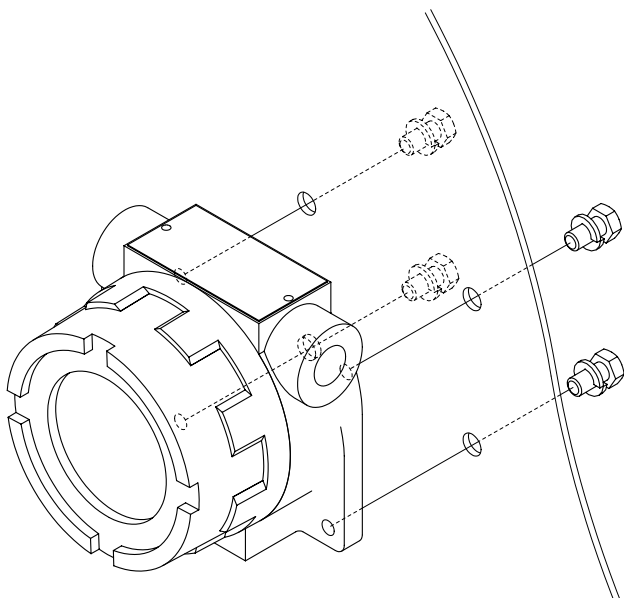


INSTALLATION

■ MOUNTING THE ENCLOSURE ON A PIPE

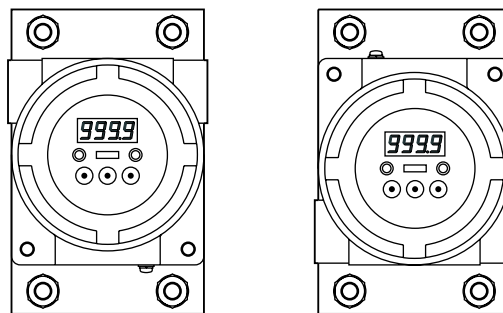


■ MOUNTING THE ENCLOSURE ON A WALL



■ MOUNTING DIRECTION

The LED indicator can be mounted in two different directions in relation to the position of the external earthing screw.



A

B

TERMINAL CONNECTION

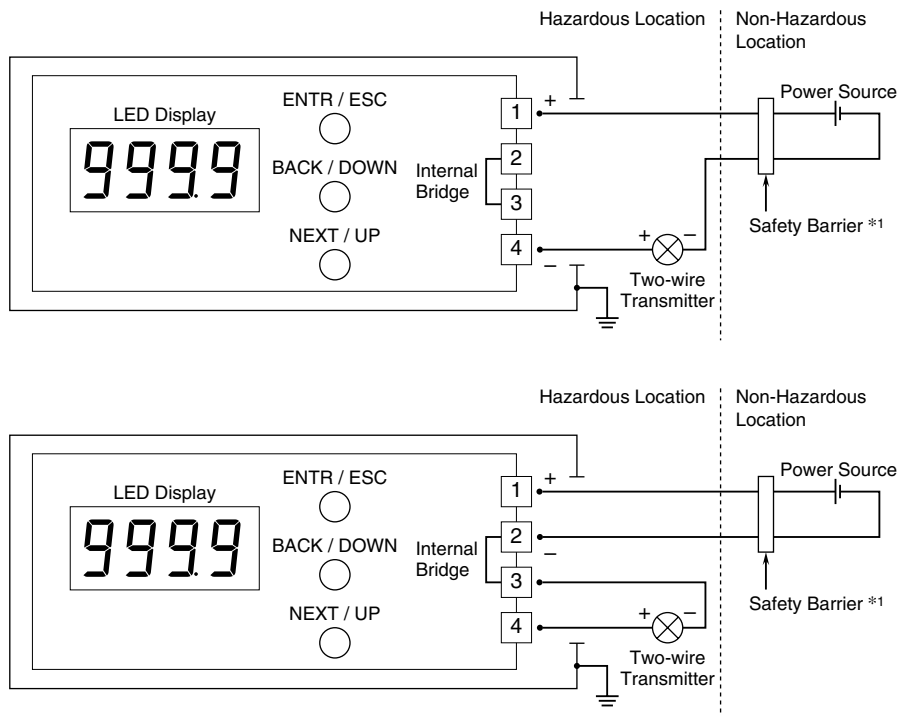
⚠ Warning!

For use in a hazardous location, refer to "Installation Diagram" in the "Safe Installation Manual."

- 1) Loosen the screws on top of the indicator and separate the indicator module from the case.
- 2) Fasten wires to terminals at the rear side of the indicator.
 Applicable wire size: 0.14 to 1.5mm² (AWG26 to 16)
 Stripped length: 6 mm (0.27")
 Recommended pin terminal: Phoenix Contact AI0,25-6BU
- 3) Put the indicator module back inside the case and tighten with the screws. (torque: 0.8 N·m)

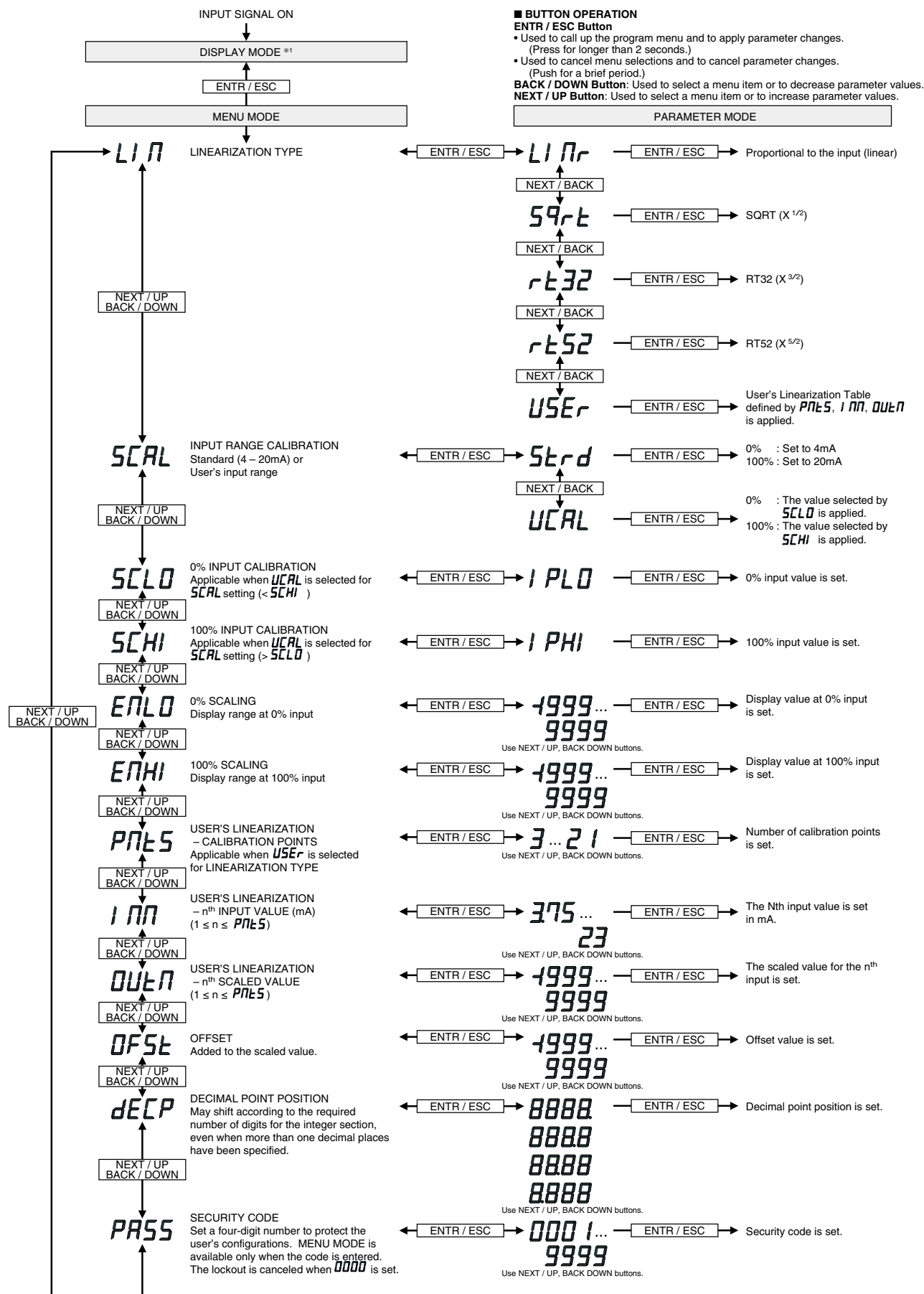
CONNECTION DIAGRAM

For use in potentially explosive atmosphere or in hazardous (classified) locations, please follow instructions in 'SAFE INSTALLATION MANUAL' provided separately for each type of certification.



*1. A safety barrier must be installed for the intrinsic safety.
The safety barrier must meet the Ex-data of this unit and must be approved for the hazardous location.

PROGRAMMING PROCEDURE



*1. Scaling value is displayed with the value fixed by 0% scaling, 100% scaling and number of digit after the decimal point specified by decimal point position.

LED DISPLAY

■ DISPLAY DIGITS

The decimal point position may shift according to the required number of digits for the integer section, even when more than one decimal places have been specified.

However, when the number of decimal places is set to 3, the '0' in the integer section is not shown in order to secure the number of effective digits, as explained in the table below.

The '0' is displayed when the number of decimal places is set to 2, though the number of effective digits in this case is reduced by 1 digit compared from the 3 decimal places.




Select appropriately for the application. Refer to 'Programming Procedure' for how to choose decimal point positions.

DECIMAL	VALUE	DATA DISPLAY
3	-1.000 thr. -1.999	<i>-1000 ... -1999</i>
	-0.001 thr. -0.999	<i>-.001 ... -.999</i>
2	-1.00 thr. -1.99	<i>- 100 ... - 199</i>
	-0.01 thr. -0.99	<i>-.001 ... -.999</i>

■ ERROR INDICATION

The data display blinks when an abnormality is detected. The unit display backlight also blinks.

When the setting error or the security code error occurs, press ESCAPE button once to cancel the error status and proceed to set again.

ERROR TYPE	DATA DISPLAY
Over-scale	
Under-scale	
Setting error	
Security code error	