







**8.PARAMETERS.....**

8.1 ALARM SET PARAMETERS

8.2 TECHNICIAN PARAMETERS

8.2.1 PROCESS INPUT TYPE AND SI.fA

8..2 MODULE-1 CONFIGURCA

8..3 MODULE-2 CONFIGURCA

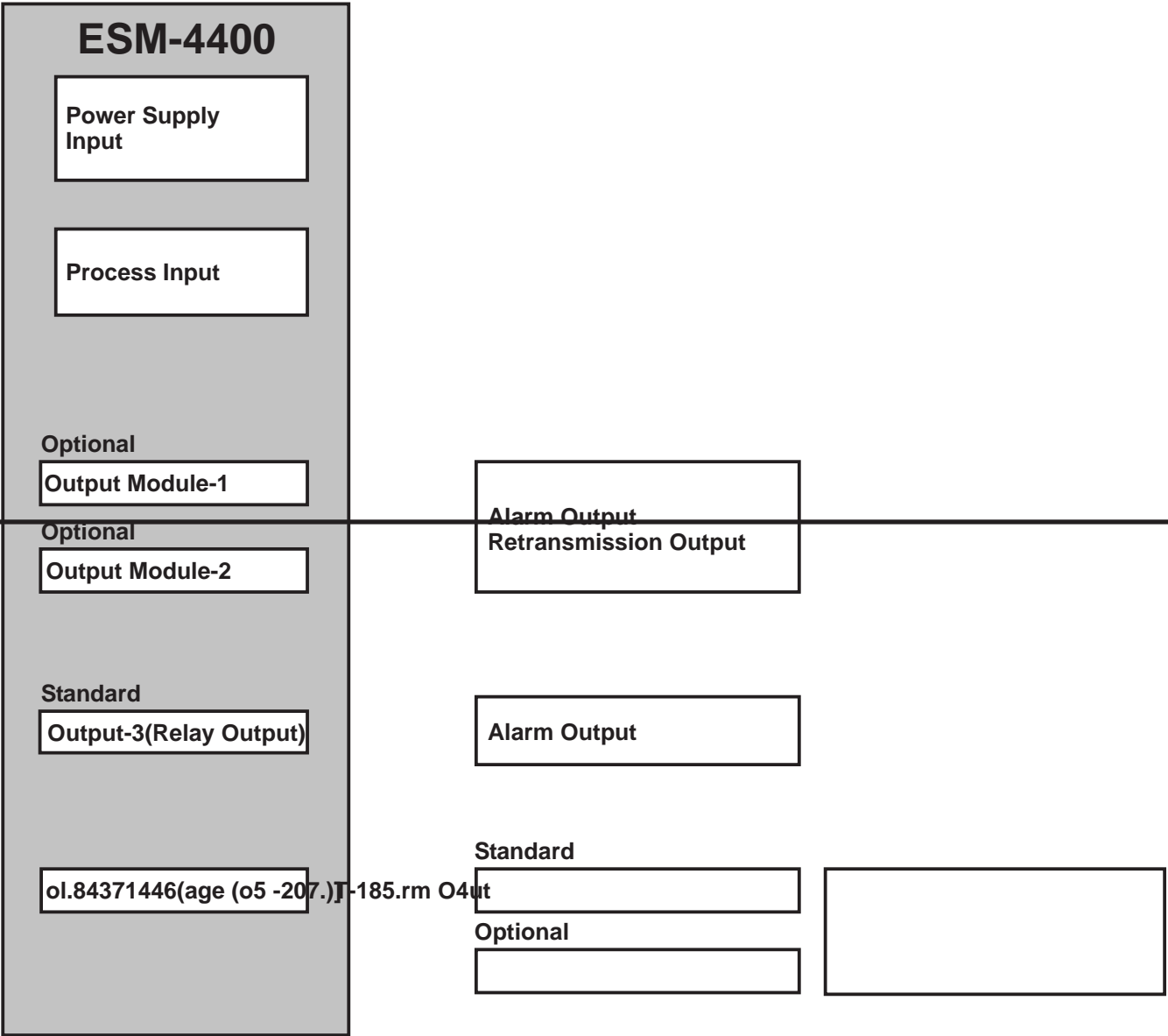
**9.FAILURE MESSAGES IN ESM-4400 PROCESS INDICATORS.....**

**10.SPECIFICATIONS.....**





1.1 General Specifications



**ESM-4400** (48x48 1/16 DIN)

A

**A | Supply Voltage**

1 100-240V (-15%;+10%) 50/60Hz  
24 V (-15%;+10%) 50/60Hz 24V (-15%;+10%)  
12 V (-15%;+10%)

















### 3.2 Electrical Wiring Diagram

Electrical wiring of the device must be the same as 'Electrical Wiring Diagram' below to prevent damage to the process being controlled and personnel injury.

Universal  
Process Input  
(TC, RTD, Voltage/Current)

Sensor or Transmitter  
Supply Voltage

Output-3  
Standard Relay Output

Communication  
Socket

Optional Output Module Terminals  
Relay , SSR Driver , Digital or Current  
Output Module

Supply Voltage Input  
100-240V (-15%;+10%) 50/60Hz - 6VA  
24 V (-15%;+10%) 50/60Hz - 6VA  
24V (-15%;+10%) - 6W  
12 V (-15%;+10%) - 6W  
(It must be determined in order)

Process input is in CAT II class.





## 3.4 Process Input Connection

### 3.4.2 RTD Connection

#### 3-wire Pt-100 connection

**Note 1 :** In 3-wire system, use always cables of the same diameter (min 1mm<sup>2</sup>) Always use wires of the same gauge and type whether a 2-wire or 3-wire system.

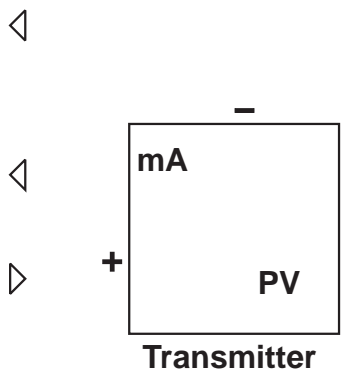
**Note 2 :** Install a jumper between terminals 2 and 3 when using a 2-wire RTD.

**Note 3 :** If the distance is longer than 10 meters, use 3-wire system

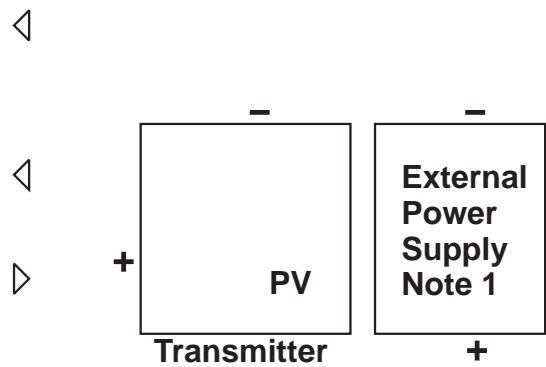
**3.4.3 Process Input Connection of Serial Transmitters with Current Output (Loop Powered)**

**3.4.4 Process Input Connection of 3-Wire Transmitters with Current Output**

Transmitter connection by using supply voltage on the device



Transmitter connection by using external supply voltage source.





### 3.6 Galvanic Isolation Test Values of ESM-4400 Process Indicator and Output

2000V

2000V





















D- \_\_\_\_\_  
D+ \_\_\_\_\_

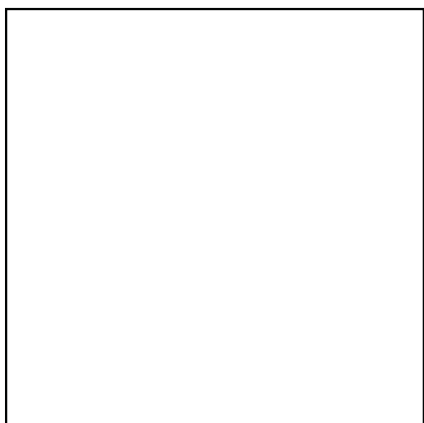
\_\_\_\_\_  
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\_\_\_\_\_  
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When power on, display of the indicator is like below:

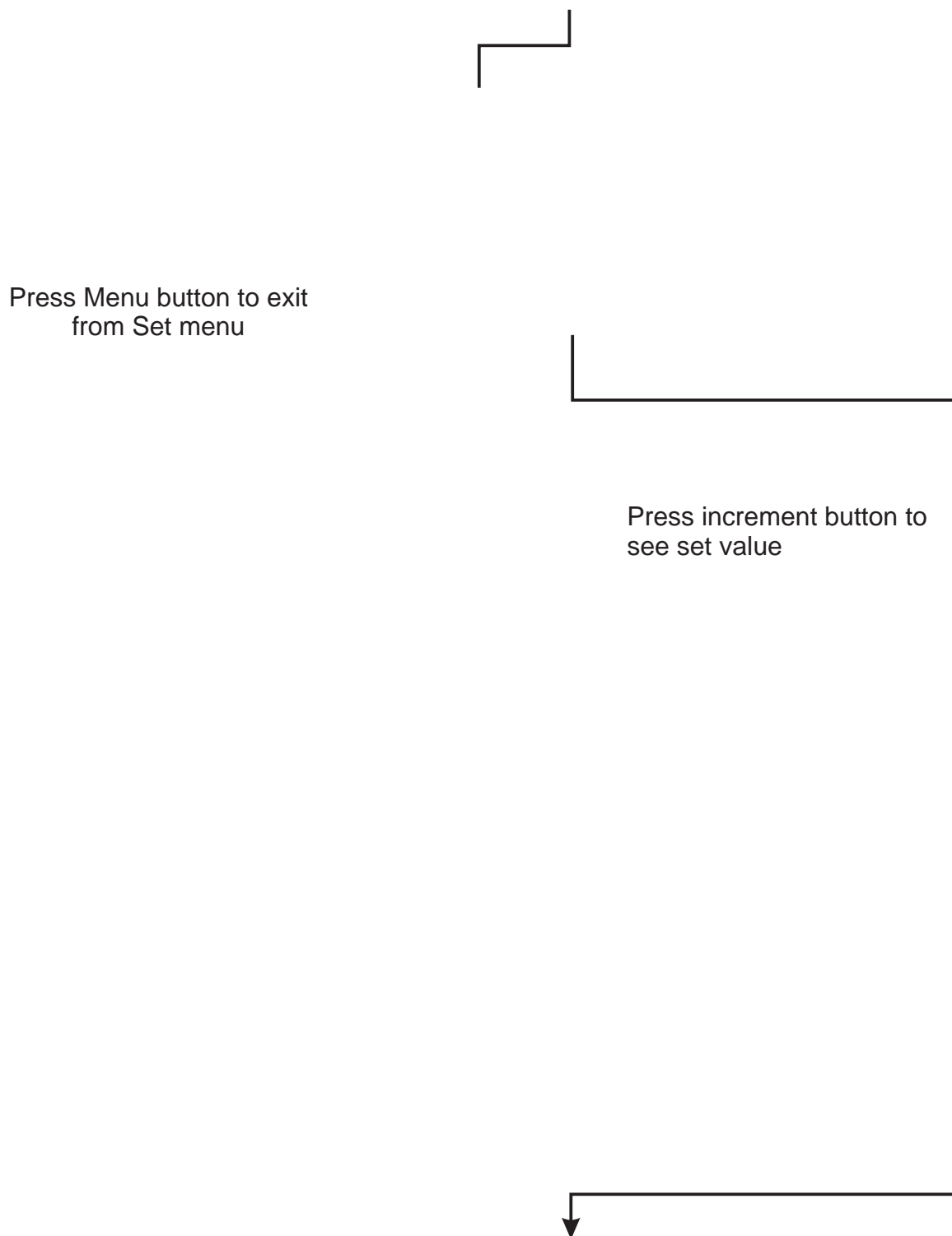
First segments of top and bottom displays are tested

Second segments of top and bottom displays are tested.

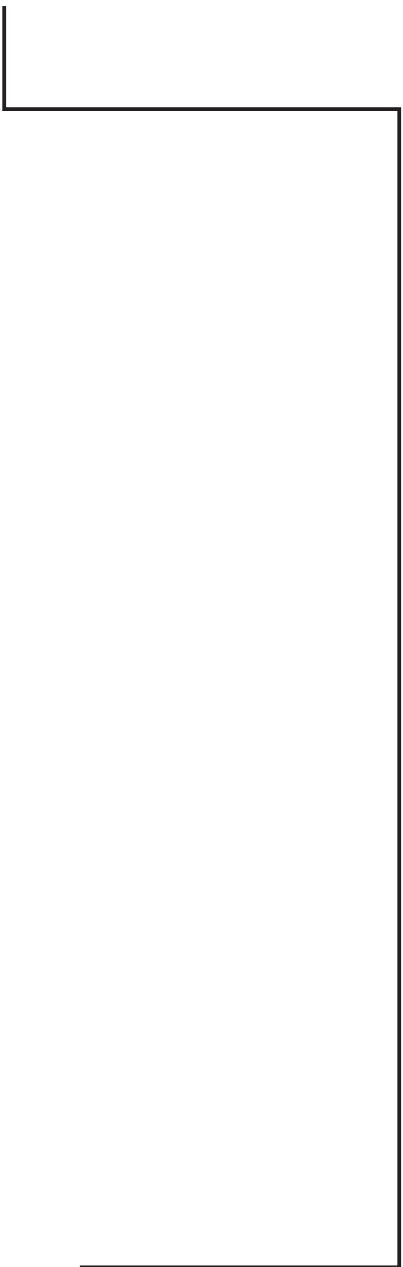
Third segments of top and bottom displays are tested.

Fourth segments of top and bottom displays are tested.

Revision number is shown.  
Revision number is "02".

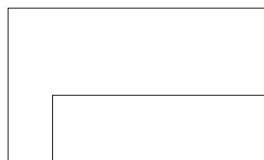


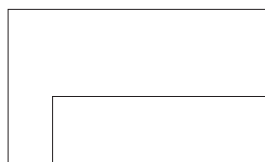




## 7.4 Accessing to the Technician Menu

The parameters have been divided into groups according to their functions. Every group has a





**GENN CONF Menu**  
General Parameters

**COM CONF Menu**  
Configuration  
parameters of serial  
communication

**PASS CONF Menu**  
Technician Password

**PINP CONF Menu**  
After PASS ConF  
menu, beginning of  
the menu list is  
accessed.




Continue to press menu accessing  
next and back buttons to change  
the menu pages.

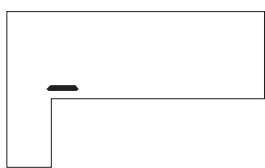
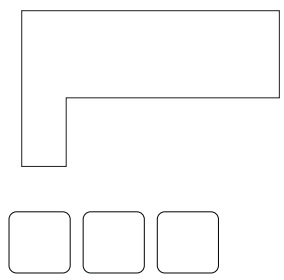






When  screen is shown, technician parameters can be seen by pressing SET button without entering password. But parameters can not be changed. Please refer to Section 8.2.7 (Technician Password)





## Process Input Type Selection





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Set value can be adjusted from minimum value of r1scale  
oTmaximum value of r1scale



rt d'1

of



**Process high alarm**

on





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