

## **Proposal :**

- 15 Auto/Manual mode selector switches with led Indication.
- 15 Push Buttons (on panel) for manual operation of Solenoid Valve.
- 15 Indication (Industrial Lamp) for respective Solenoid Valve Operation.
- 15 RTD digital input (NO/NC Contact) facility.
- 15 Input (NO/NC Contact) circuit for field push station.
- 15 Solenoid Valve driver circuit.
- 1 Hooter : 24V/500mA
- 1 NO/NC Contact : common indication of Solenoid Valve Operation.
- 1 Additional 24V output circuit.
- Additional Led Indication on panel
  - System ON
  - Common Fault
  - Supply Fault
  - Hooter Fault
  - Lamp test
  - Reset
  - Alarm
  - Silence
- Additional keys on panel
  - Panel reset
  - Alarm
  - Silence
  - Lamp Test

## **Panel working:**

### **➤ RTD digital input**

- Potential Free Contact (NO): Input to Panel.
- On receiving NO, panel will not perform any action.
- On receiving NC, panel will perform as follows
  - Respective Solenoid circuit will be ON: 24V/500mA.
  - Respective Lamp Indication will be ON.
  - Common Hooter will be ON : 24V/500mA.
  - Local Alarm will be ON.
  - Common Alarm Relay will be ON: Provides NC potential free contact.
- Panel will response to this RTD digital input only when respective auto/manual selector switch is positioned to auto mode.

### **➤ Manual Push Button (On Panel)**

1. 15 Respective Push Button on panel.
  2. When button is not pressed then panel will not perform any action.
  3. When respective button is pressed then panel will perform as follows
    - Respective Solenoid circuit will be ON: 24V/500mA.
    - Respective Lamp Indication will be ON.
    - Common Hooter will be ON : 24V/500mA.
    - Local Alarm will be ON.
    - Common Alarm Relay will be ON: Provides NC potential free contact.
- Panel will response to this manual push button only when respective auto/manual selector switch is positioned to manual mode.

### **➤ Field Push Button (Remote)**

1. 15 Respective Push Button on remote.
  2. When button is not pressed then panel will not perform any action.
  3. When respective button is pressed then panel will perform as follows
    - Respective Solenoid circuit will be ON: 24V/500mA.
    - Respective Lamp Indication will be ON.
    - Common Hooter will be ON : 24V/500mA.
    - Local Alarm will be ON.
    - Common Alarm Relay will be ON: Provides NC potential free contact.
- Panel will response to this field push button only when respective auto/manual selector switch is positioned to manual mode.

➤ **Additional Led Indication on panel**

1. System On Led.

- Indicates panel working status.

<b>Led ON</b>	Panel power is ON.
<b>Led OFF</b>	Panel power is OFF.

2. Common Fault

- Indicates Panel fault status.

<b>Led ON</b>	Panel detected any fault.
<b>Led OFF</b>	Panel has not detected any fault.

3. Supply Fault

- Indicates panel power fault status.

<b>Led ON</b>	Panel main power is OFF.
<b>Led OFF</b>	Panel main power is ON.

4. Hooter Fault

- Indicates panel hooter wiring status.

<b>Led ON</b>	Panel detected hooter fault, hooter wiring open or short.
<b>Led OFF</b>	Panel has not detected any hooter fault.

5. Common Fault

- Indicates Panel fault status.

<b>Led ON</b>	Panel detected any fault.
<b>Led OFF</b>	Panel has not detected any fault.

6. Reset

- Indicates panel reset status.

<b>Led ON</b>	Panel is getting reset.
<b>Led OFF</b>	Panel in working condition.

7. Alarm

- Indicates hooter audible status.

<b>Led ON</b>	Alarm key on panel is pressed.
<b>Led OFF</b>	Alarm key on panel is not pressed.

8. Silence

- Indicates hooter silence status.

<b>Led ON</b>	Silence key on panel is pressed.
<b>Led OFF</b>	Silence key on panel is not pressed.

9. Lamp Test

- Indicates lamp test key status.

<b>Led ON</b>	Lamp test key on panel is pressed.
<b>Led OFF</b>	Lamp test key on panel is not pressed.

➤ **Additional key on panel**

1. Reset

<b>Key Pressed</b>	Panel will perform reset.
<b>Key not pressed</b>	Panel will not perform reset.

2. Alarm

<b>Key Pressed</b>	Hooter and local alarm will be ON
<b>Key not pressed</b>	Hooter and local alarm will be OFF

3. Silence

<b>Key Pressed</b>	Hooter and local alarm will be OFF
<b>Key not pressed</b>	Panel in working condition.

4. Lamp Test

<b>Key Pressed</b>	All indication on panel will be ON.
<b>Key not pressed</b>	Panel in working condition.