Up to 30 Programmable control loop

- Up to 30 zone can be managed
- 7.0 and 10” Colour HMI
- Trend display for each loop
- Recipe Program Management
- Fuji PUM Multiloop temperature controller.
- Each loop can manage one program of N°4 segment (Ramp SP1-Soak - Ramp to SP2– Soak)

Each project can manage up to 30 loops. The operator Page can show up to 8 loops. Pushing the zone description area is possible to see the advanced parameter and setting page for each zone.

- Zone Name Description
- ON/OFF Zone Push Button
- Setpoint display and setting
- Temperature measured displays
- Generic Alarm Status
- Deviation Graph
- Trend Display Push Button for each zone
- Power Output Value

For each zone is available an advanced page where is possible to see and modify parameters and alarm.

The parameters with light blue colour can be setted on this page. This page can be displayed touching the zone name on the main operating page. With page button, is possible to shift to the next zone.

SETPOINT and MEASURE
- Setpoint and Measure
- % Heat and % Cool

ALARM STATUS
- Alarm 1 Deviation (default)
- Alarm 2 Max Temperature (default)
- Sensor Input Configuration

SINGLE PROGRAM PARAMETERS AND KEYS
- SP1—SP2 setting
- Ramp and Dwell setting
- Dedicated Run, Stop and Hold of the single Program.
PROGRAM FEATURE

Pushing the START button on the menu is possible to open an Operator Pop Up, where it is possible to Run, Hold or Stop concurrently all the programs stored for each loop.

Pushing the Zone Name is possible to move to the Advanced Page. Inside this page it is possible to:

- Set up one program with N°2 SP dedicated to the selected zone.
- Stop, Run or Hold only the selected program. The other programs will remain in their status without being influenced by the action done with the selected loop.

Note: all programs are independent, as a standard the soak band auto hold function is disabled on PUM.

RECIPE PAGE - PROGRAM OVERVIEW AND SETTING

<table>
<thead>
<tr>
<th>Name</th>
<th>RECIPE1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Set1 H:M ramp H:M Soak</td>
</tr>
<tr>
<td>Z1</td>
<td>51 0.04 0.01</td>
</tr>
<tr>
<td>Z2</td>
<td>52 0.04 0.01</td>
</tr>
<tr>
<td>Z3</td>
<td>53 0.04 0.01</td>
</tr>
<tr>
<td>Z4</td>
<td>54 0.04 0.01</td>
</tr>
<tr>
<td>Z5</td>
<td>55 0.15 0.02</td>
</tr>
<tr>
<td>Z6</td>
<td>56 0.16 0.02</td>
</tr>
<tr>
<td>Z7</td>
<td>57 0.17 0.02</td>
</tr>
<tr>
<td>Z8</td>
<td>58 0.18 0.02</td>
</tr>
</tbody>
</table>

- Up to N°41 Recipes can be stored and named
- Each Recipe includes up to N°30 Program of 4 segments
- Each Program includes (SP1, Ramp Time SP1 and Soak Time SP1, SP2, Ramp Time SP2 and Soak).
- All the programs of one recipe can be set from Recipe Page or set from each one Advanced Page.
- Each Recipe Page displays up to 8 zones. Pressing the arrow keys is possible to see all the programs included in the recipe.

HARDWARE: FUJI PUM MULTI LOOP + REVO S + TU-RS485 ETH IO DL

- PUM A = N°4 Controller Heating Only
- PUM B = N°2 Controller Heating & Cooling
- PUM Output: SSR, Relay or 4:20mA
- Input Pt100/TC (200mS) or 4:20mA (100mS).
- Heater Break Alarm available with REVO S + HB Option.

OPERATOR POP UP

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**TREND PAGE**

For each loop is available Trend page dedicated to the graphical display of setpoint value, temperature control and Power view over time.

**Description of the fields:**

- **Set:** View here the temperature set point adjustment.
- **Value:** Displays the value of temperature in the area.
- **Power:** Power percentage of the temperature zone.
- **Minimum Show:** It is an adjustable value, where the operator decides the minimum visible scale.
- **View Maximum:** It is an adjustable value, where the operator decides the maximum visible scale.

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**ALARM PAGE AND ALARM HISTORY**

This page is available to collect all the loop’s alarms. Inside this page it possible to see the type of Alarm, the Data and the time. There are three different colours:

- **Green,** alarm terminated
- **Orange,** alarm acknowledged
- **Red,** alarm active and not acknowledged

In case of alarm, the menu Alarm push button become Red.

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**ADVANCED SETTING PAGE**

**Advanced Setting Page:** It’s very easy to add or remove one zone on the software. Each loop can be enabled or disabled by pressing a push button. For each zone it is possible to set a dedicated name.

In this Page is also possible to set the language: English, Italian and German are available.

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**TEND PAGE**
HMI Touch Panel from 7.0” up to 10” TFT Colour Display

**ORDERING CODE**

<table>
<thead>
<tr>
<th>PHMI</th>
<th>07</th>
<th>P</th>
<th>008</th>
</tr>
</thead>
</table>

**SCREEN DIMENSION**

| 7.0” | 07 |
| 10.0” | 10 |

**CONTROLLER TYPE & COMM.**

FUJI PUM Profiler + Ethernet TU-RS485-ETH

**VERSION**

Standard 8 loop per page view.

Other

**LAB SETTING SERVICE**

<table>
<thead>
<tr>
<th>HMI</th>
<th>LAB</th>
<th>xx</th>
</tr>
</thead>
</table>

Set the N° off zone (01 to 30) to get HMI and TC configured and tested based on your specification. Customer must give a complete detailed description of all the zones.

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**ETHERNET NODE — FUJI PUM MULTILOOP CONTROLLER**

- **RS485 Modbus S**

- **DO for HB Calibration**

- **DI For alarm detection**

- **SSR**

- **HB Alarm I/O**

**REVO S 1PH Thyristor Units with logic input + HB Alarm inside the units + Integrated Current Transformer**

**HB = Heather Break Alarm (total or partial load failure).**

**Sc = Short Circuit Alarm on SSR**