The top line constantly provides information about the actual output states.

Blank field instead of number 5 = output five has not yet been parameterized
5 Output five is active, runs in automatic mode and is temporarily switched off
6 Output five is active, runs in automatic mode and is temporarily switched on
7 Output five is active, runs in manual mode and is temporarily switched off
8 Output five is active, runs in manual mode and is switched on at the moment

The second line is the headline for the following menu and/or parameter lines

The middle display area is the operative range. Within this range the programming, parameterizing and indicating takes place.

The lowest line exclusively serves to mark the two keys below in order to be able to assign different functions to it.

Factory Settings
In each UVR 1611, this standard system is saved as the “factory setting”. As individual programming is created for each system, this manual relates to this factory setting.

The diversity of the programming means it is not possible to create a brief guide for all application cases. Therefore this manual relates to a standard system, which is saved as the “factory setting” in every controller.

The keys
The control unit has two keys below the display. They are constantly assigned with the required functions via the display:

SERVICE - To switch from the function overview (the most important menu for the user) into all other menus
BACK - The PC switches immediately into the next-higher menu level
SCROLLING - This function allows the direct “switch” from one menu level to the same level of the next menu by means of the scroll wheel

Example: changing of the lowering temperature of heating circuit 1 von 16°C to 14°C:

Position the cursor arrow by scrolling
Scroll until the cursor is in the required line:

Select value
Set value
Accept value

Scrolling - This function allows the direct “switch” from one menu level to the same level of the next menu by means of the scroll wheel

The display:

The function overview
Essentially, it is unimportant for the user, how the programming of the controller appears in detail. The important factor is optimum control of the system.

However as a user, you must be able to adjust important controller settings so that it fulfills your requirements and also be aware of important system sensor values. The function overview, which is produced by the programmer, was created to meet this adjustment possibility.

The possibility exists that your controller always displays the function overview as the basic display. However as a user, you must be able to enter the function overview via the main menu.

The function overview of the factory setting is described on page 2.

The scroll-wheel
By means of the scroll-wheel, the selected menu can be gone through by the right pointer in the display. Small upward or downward showing arrow symbols the possibility of further menu lines above or below the visible display range.

If a parameter is to be changed, the pointer must be put in the desired position. By pressing the wheel, the arrow cursor changes from → to ← and the background lighting of the scroll-wheel frame from green to orange to indicate programming. Now the value can be adjusted using the wheel (possibly also with “* 10”). You may cancel at any time by pressing CANCEL. Press the wheel again to turn the screen light green and take over the parameter.

The function of the factory setting is described on page 2.
**Function overview of the factory setting**

<table>
<thead>
<tr>
<th>Operat Syst:</th>
<th>A3.16EN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tu. 15.06.2010</td>
<td></td>
</tr>
<tr>
<td>Summertime:</td>
<td>12 : 03</td>
</tr>
<tr>
<td>INPUTS</td>
<td></td>
</tr>
<tr>
<td>1: T.Collector</td>
<td>37.0 °C</td>
</tr>
<tr>
<td>2: T.Warm Water</td>
<td>46.9 °C</td>
</tr>
<tr>
<td>7: T.ST.Upper</td>
<td>77.1 °C</td>
</tr>
<tr>
<td>9: T.Boiler Pre</td>
<td>78.8 °C</td>
</tr>
<tr>
<td>12: T.Outdoor</td>
<td>2.2 °C</td>
</tr>
<tr>
<td>HEAT CIR.1  F:</td>
<td>4</td>
</tr>
<tr>
<td>OPERAT: RAS</td>
<td></td>
</tr>
<tr>
<td>TIME/AUTO</td>
<td></td>
</tr>
<tr>
<td>T.Room.LOWER:</td>
<td>16 °C</td>
</tr>
<tr>
<td>T.Room.NORMAL:</td>
<td>20 °C</td>
</tr>
<tr>
<td>TIME PROG:</td>
<td></td>
</tr>
<tr>
<td>HEAT CURVE:</td>
<td></td>
</tr>
<tr>
<td>HEAT CIR.2  F:</td>
<td>5</td>
</tr>
<tr>
<td>OPERAT: RAS</td>
<td></td>
</tr>
<tr>
<td>TIME/AUTO</td>
<td></td>
</tr>
<tr>
<td>T.Room.LOWER:</td>
<td>16 °C</td>
</tr>
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<td>20 °C</td>
</tr>
<tr>
<td>TIME PROG:</td>
<td></td>
</tr>
<tr>
<td>HEAT CURVE:</td>
<td></td>
</tr>
<tr>
<td>WW REQ</td>
<td>F: 7</td>
</tr>
<tr>
<td>WARM WATER TEM.:</td>
<td></td>
</tr>
<tr>
<td>T.WW.ACT: 46.9 °C</td>
<td></td>
</tr>
<tr>
<td>T.WW.NOM: 50 °C</td>
<td></td>
</tr>
<tr>
<td>TIME PROG: T.WW.MIN: 40 °C</td>
<td></td>
</tr>
</tbody>
</table>

1. **1st line**: Display of the operating system (version)
2. **Date and time** (changeable)
3. **Sensor values searched for inputs**
4. **Operating mode selection**

- **Room temperature in lowering mode**
- **Room temperature in normal mode**

Option, to set or change the **time program** for this heating circuit. Up to 5 time programs, which can contain up to 3 time windows, can be programmed. A change to the number of programs and time windows is only possible under expert mode.

The flow temperature is usually calculated from the external temperature and the heating curve.

2. **Adjustment methods**:
   - **Slope**
   - **Curve** (dependence of the external temperature at +10°C and -20°C to the flow temperature).
   - **Room influence** - The room temperature is taken into consideration for the calculation of the flow at xx%
   - **Increase in switch on power** - The specified lowering time leads to a (decreasing over time) raising of the flow temperature.

**Maximum and minimum permitted flow temperature**

- **Current hot water temperature**
- **Nominal temperature of the hot water tank**
- **Time program (adjustment as for heating circuit)**
- **Minimum value of the hot water tank temperature (outside the time window of the time program)**

---

**Example:**

<table>
<thead>
<tr>
<th>TIME PROG</th>
<th>06.00 - 08.00 h</th>
<th>12.00 - 14.00 h</th>
<th>17.30 - 22.00 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mo Tu We Th Fr Sa Su</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mo Tu We Th Fr Sa Su</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example:**

- **The days Monday to Friday are reverse-highlighted** and therefore selected.
- **The remaining 2 time windows are unused.**

---

**If for example, the first time program applies for Monday to Friday, then these five symbols must be sequentially reverse-highlighted.** Then the time windows for the heating times can be set for the selected days. Then by further scrolling, the 2nd time program, e.g. for the heating times at the weekend can be selected.

- **Example:**
  - **TIME PROG**
  - **Mo Tu We Th Fr Sa Su**

**At the weekend, continuous heating from 7 am until 10 pm is required.**

**The controller switches back to automatic operation after the time indicated has expired.**

---

**When using a room sensor "RAS" is displayed in the 1st line and then "TIME/AUTO" and the actual operating mode ("NORMAL" or "LOWERED"). If a subsequent operating mode is switched to, "RAS" is no longer visible.**

- **If no room sensor is used, only one of the operating modes described below is displayed here. You can also switch to the following heating functions regardless of whether a room sensor exists.**

**TIME/AUTO**

- The system is automatically switched between normal and lowering mode dependent on set heating time. The current operating mode is shown in the next line by either "NORMAL" or "LOWERED."
- The controller is switched to manual mode - heating (normal), lowering mode is never activated.

**LOWERED**

- The controller is switched to manual mode - lowered, heating mode at normal temperature is never activated.

**STANDBY**

- The control function is switched off (frost protection remains active)

**HOLIDAY**

- The day for this entry is treated like a Saturday (i.e. all Saturday switching times apply), all following days are treated like a Sunday, until the indicated date is reached. The following line indicates from which date, 0.00 h, automatic mode should again apply.

**LEAVE**

- The heating circuit is switched to lowering mode, until the date specified in the next line, 0.00 h, is reached.

**PARTY**

- Party mode prevents changeover to lowering mode at the end of the programmed heating time. In the next line, an entry must be made specifying when automatic mode will again apply.

**Dependent on the linking with the maintenance function or the external input, the following can also appear:**

- **MAINTENANCE, FROST PROTECTION, EXT/STANDBY, EXT/FROST P**

- **HOLIDAY, LEAVE and PARTY**

- The controller switches back to automatic operation after the time indicated has expired.