



## Service settings for the PID-temperature regulation Profitec Pro700

Through the service modus of the PID-display, you have the possibility to customize the parameters of the attached table according to your customer's wishes.

### Setup

To set up the requested parameters, please proceed as follows:

1. Press **+** and **-** simultaneously while the machine is switched off and switch the machine on. Release the keys only after "F.01" is being displayed. The temperature of either boiler is not important for programming, as both boilers are inactive during programming.
2. Press **-** to select the different parameter which are displayed in order. As soon as you have reached "E3" and have again pressed **-** you will start with "F.01" once more.
3. Press **+** in order to progress to the submenu of the currently selected parameter.
4. Quickly press **+** to increase and **-** to decrease the desired value.
5. After the set-up of the desired value please wait a short amount of time until the initially selected parameter (e.g. "F.01") appears again.
6. To change another parameter, start over with step 2 again.
7. Turn off the machine once you have finished programming.
8. Wait at least 10 seconds before switching the machine on again.
9. The programmed values are now saved. Both boilers are activated (successively).



## Profitec Pro700 - US Version

### Service settings

| Parameter | Display | Function                                                                               | Explanation                                                                                                                                                          |
|-----------|---------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F.01      | °F      | Temperature in degrees Fahrenheit                                                      |                                                                                                                                                                      |
|           | °C      | Temperature in degrees Celsius                                                         |                                                                                                                                                                      |
| F.02      | 2       | Activation of the boiler heater brew group                                             | Only the brew group is heated                                                                                                                                        |
|           | 3       | Activation of the steam/hot water boiler                                               | Only the steam/hot water boiler is heated                                                                                                                            |
|           | 4       | Not assigned                                                                           |                                                                                                                                                                      |
|           | 5       | Activation of the heaters for both boilers                                             | Both boilers are heated => high wattage!                                                                                                                             |
|           | 6       | Not assigned                                                                           |                                                                                                                                                                      |
|           | 7       | Activation of the heaters for both boilers, whereby the brew group boiler is preferred | Steam/hot water boiler will be heated only after the temperature of the brew group boiler is reached => both boilers are never heated simultaneously => saves energy |
| P.        | X.X     | Value of the consistent, proportional control                                          | Please do not change recommended settings!                                                                                                                           |
| I.        | X.XX    | Value of the consistent, integral control                                              | Please do not change recommended settings!                                                                                                                           |
| d.        | XX.X    | Value of the consistent, derivative control                                            | Please do not change recommended settings!                                                                                                                           |
| t1        | XX      | Desired value in the brew group boiler                                                 | Desired temperature value at the measuring point                                                                                                                     |
| t2        | XX      | Desired value in the brew steam/hot water boiler                                       | Desired temperature value at the measuring point, max. 128°C                                                                                                         |
| t3        |         | Not assigned                                                                           |                                                                                                                                                                      |
| E1        | X       | Temperature difference measuring point to the display                                  | Example: 10°C: measuring point 100°C => display 90°C                                                                                                                 |
| E2        | X       | Temperature difference measuring point to the display                                  |                                                                                                                                                                      |
| E3        |         | Not assigned                                                                           |                                                                                                                                                                      |

### Recommended Settings

| Parameter | Display | Function                                                               | Explanation                                                                                                                                                          |
|-----------|---------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F.01      | °F      | Temperature in degrees Fahrenheit                                      |                                                                                                                                                                      |
| F.02      | 7       | Activation of both heaters, whereby the brew group boiler is preferred | Steam/hot water boiler will be heated only after the temperature of the brew group boiler is reached => both boilers are never heated simultaneously => saves energy |
|           |         |                                                                        |                                                                                                                                                                      |
| P.        | 2.5     | Value of the consistent, proportional control                          | Please do not change recommended settings!                                                                                                                           |
| I.        | 0.02    | Value of the consistent, integral control                              | Please do not change recommended settings!                                                                                                                           |
| d.        | 8       | Value of the consistent, derivative control                            | Please do not change recommended settings!                                                                                                                           |
| t1        | 199     | Desired value in the brew group boiler                                 | Desired temperature value at the measuring point                                                                                                                     |
| t2        | 255     | Desired value in the brew steam/hot water boiler                       | Desired temperature value at the measuring point, max. 128°C                                                                                                         |
| t3        |         | Not assigned                                                           |                                                                                                                                                                      |
| E1        | 25      | Temperature difference measuring point to the display                  | Example: 10°C: measuring point 100°C => display 90°C                                                                                                                 |
| E2        | 0       | Temperature difference measuring point to the display                  |                                                                                                                                                                      |
| E3        |         | Not assigned                                                           |                                                                                                                                                                      |

### Error messages

| Display | Error Source                  | Explanation                                               |
|---------|-------------------------------|-----------------------------------------------------------|
| A1      | Sensor boiler brew group      | Disconnection, sensor has no contact                      |
| A2      | Sensor boiler brew group      | Temperature safeguard (150°C) triggered, electrical short |
| A3      | Sensor boiler steam/hot water | Disconnection, sensor has no contact                      |
| A4      | Sensor boiler steam/hot water | Temperature safeguard (150°C) triggered, electrical short |
| A5      | Not assigned                  |                                                           |
| A6      | Not assigned                  |                                                           |