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| Parameter | Value-Type | Description | | Example |
| DAY\_TEMP | INTEGER | The temperature in degree celsius (°C) wich should be held at the day | 21 | |
| NIGHT\_TEMP | INTEGER | The temperature in degree celsius (°C) wich should at least be. | 19 | |
| LIGHT\_DUR | INTEGER | Duration in hours specifying the time a day has light starting at START\_LIGHT\_HOUR / START\_LIGHT\_MIN | 10 | |
| HUMIDITY | INTEGER | Specifing the optimal humidity in absolute percentage | 70 | |
| HUMIDITY\_VAR | INTEGER | Specifying a variance | 5 | |
| TEMP\_VAR | INTEGER | Specifying a variance | 2 | |
| SOIL\_COUNT | INTEGER | For the usage of an MCP3008 it should be a value between 0 and 1023 | 700 | |
| SOIL\_VAR | INTEGER |  | 50 | |
| PUMP\_ML\_PER\_SEC | DOUBLE | Amount in ml the pump pumps per sec | 0.83 | |
| WATERING\_AMOUNT | INTEGER | Specifies the watering amount in millilitres | 150 | |
| START\_LIGHT\_HOUR | INTEGER |  | 10 | |
| START\_LIGHT\_MIN | INTEGER |  | 0 | |
| FAN\_ACTIVE | BOOLEAN | Specifies if the Fan should be activated | TRUE | |
| PUMP\_ACTIVE | BOOLEAN | Specifies if the Pump should be activated | FALSE | |
| LIGHT\_ACTIVE | BOOLEAN | Specifies if the Light should be activated | TRUE | |
| FAN\_CD\_HOUR | INTEGER | Specifies the hours how long at least the fan should not be activated | 1 | |
| FAN\_CD\_MIN |  | Specifies the minutes how long at least the fan should not be activated | 30 | |
| PUMP\_CD\_HOUR | INTEGER | Specifies the hours how long at least the pump should not be activated | 5 | |
| PUMP\_CD\_MIN | INTEGER | Specifies the minutes how long at least the pump should not be activated | 15 | |
| LOG\_ACTIVE | BOOLEAN | Specifies if a log should managed | TRUE | |
| LOG\_FILE\_PATH | STRING | selfdescripting | /home/pi/Hydro/log.txt | |
| COOLDOWN\_FILE\_PATH | STRING | selfdescripting | /home/pi/Hydro/cooldowns.txt | |
| PIN\_MAPPING\_PATH | STRING | selfdescripting | /home/pi/Hydro/pins.txt | |
| USE\_RTC | BOOLEAN | Should an Real Time Clock be used | TRUE | |
| RTC\_ALTHOUGH\_CONNECTED | BOOLEAN | Should the RTC used although an internet connection is established | FALSE | |

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| Parameter | Value-Type | Description | Example |
| DAYLIGHT\_THRESHOLD | INTEGER | AD Sampled Value from the Photodiode at wich it should considered Day | 40 |
| SOIL\_MEASUREMENTS | INTEGER | Number of Measurements for the Soil Moisture | 5 |
| SOIL\_WET\_VALUE | INTEGER | Estimated maximal value for the soil moisture sensor | 480 |
| SOIL\_DRY\_VALUE | INTEGER | Estimated minimal value for the soil moisture sensor | 120 |
| LIGHT\_MEASUREMENTS | INTEGER | Number of measures for the light sensor | 6 |
| LIGHT\_MAX\_VALUE | INTEGER | Estimated maximal value for the photodiode | 260 |
| LIGHT\_MIN\_VALUE | INTEGER | Estimated minimal value for the photodiode | 50 |
| WEBLOG\_ACTIVE | BOOLEAN | Should a weblog be written? | TRUE |
| WEBLOG\_FILE\_PATH | STRING | Absolute path to the weblog file | /var/www/html/weblog.txt |
| LIGHT\_CONTROL\_FILE\_PATH | STRING | Absolute path to the control file for the light | /etc/Hydro/lightcontrol.txt |
| FAN\_CONTROL\_FILE\_PATH | STRING | Absolute path to the control file for the fan | /etc/Hydro/fancontrol.txt |