

Watering with humidity measuring

Task

“easy” is required to provide an automatic control of a plant watering system using humidity sensors.

Two sensors that measure the humidity of the plant soil are connected to the analog of inputs of “easy”.

The system is designed for two pumps and is controlled by a central ON and OFF switch.

Wiring

1. Inputs:

- I1 Central switch S1 (ON / OFF)
- I7 Analog input for humidity sensor 1
- I8 Analog input for humidity sensor 2

2. Outputs:

- Q1 Watering pump E1
- Q2 Watering pump E2

3. Parameters:

- A1 $I7 \leq 4.8$ watering pump 1 OFF
- A2 $I7 \geq 5.2$ watering pump 1 ON
- A3 $I8 \leq 2.8$ watering pump 2 OFF
- A4 $I8 \geq 3.2$ watering pump 2 ON