

SensorMatic 15

Sensor-controlled switching unit for small irrigation systems

The single-channel Sensormatic 15 controller switches a solenoid valve for irrigation depending on the measured soil moisture. This makes it easy to implement indoor greening systems, garden irrigation, as well as greenhouse or outdoor cultivation. The soil moisture is measured with an SMT50 volume sensor at regular intervals. Optionally, a second volume sensor can increase the reliability of the controller and the measuring point. Depending on the power supply, either impulse valves (battery operated), standard solenoid valves or switching relays (with external mains power supplies) can be switched. The functions are operated and set using buttons, rotary switches and DIP switches.

Several options are available for both the start and type of irrigation; the start set points can be specified and two sequence programs (for fixed time and cycle program) can be variably configured. The system can also be operated manually by pressing a button using an on/off switch.

Irrigation takes place either when both flow sensors have reached the set starting point and one flow sensor falls below the set point again, or when the first flow sensor reaches the switching point and until both have reached the set point again. The switch point and duration of irrigation for the valve can be selected as one of 15 intervals. There are two sequence programs available. The fixed time program switches off after a specified duration without repetition. The cycled irrigation program waters using up to three cycles until the desired soil moisture is reached. The sensor's measuring range is monitored and a warning is issued if a value exceeds the range. The system can also be operated manually by pressing a button using an on/off switch. Automatic watering mode ends after 30 minutes or when the current watering stops. Various warning functions are available. These are indicated by flashing LEDs or an optional buzzer. A warning is issued when the normal measuring range is exceeded or not reached, when irrigation is too infrequent (> 100 h) and when the battery is low.

TECHNICAL SPECIFICATIONS:

Power supply:	Battery operation: 9 VDC
	Mains operation: external 24 VDC/230 VAC
Sensor input:	max. 2 Type SMT 50
Switching output:	1
Weight incl. batteries:	approx. 670 g
Dimensions:	Box with cable glands
	approx. 185 x 145 x 75 mm

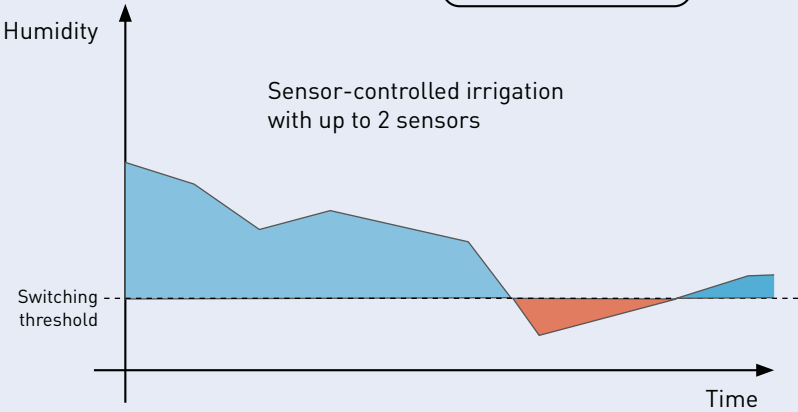
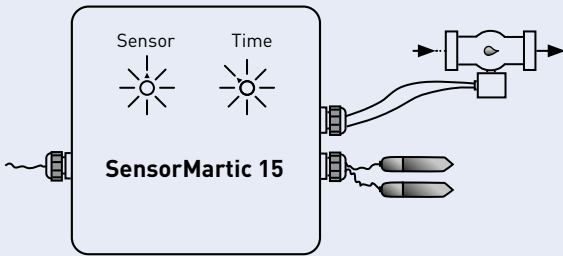


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Extra features include an additional relay with potential-free switching for AC solenoid valves, an additional release option with thermostat or external float switch, as well as the forwarding of the measured values as analogue signals.

The electronics are mounted in a plastic housing with cable glands for the inputs and outputs. The battery-powered version also includes a battery pack in the lid. The mains-powered version is supplied with power externally. The electronics are operated with 9 or 24 VDC, which supplies the volume sensors and the solenoid valve.



Product	Article number
Sensormatic 15	501558
Volume sensor SMT 50	501651
Accessories	
Impulse solenoid valve	On request
Solenoid valve	On request
External power supply unit	On request
Acoustic alarm	On request

