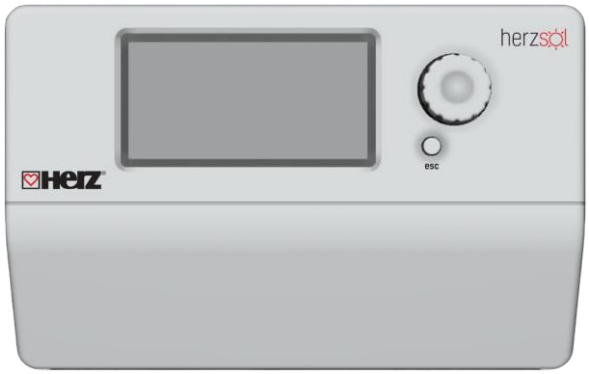
Microprocessor controller

type: HerzSol

Datasheet: 12/2025

Description

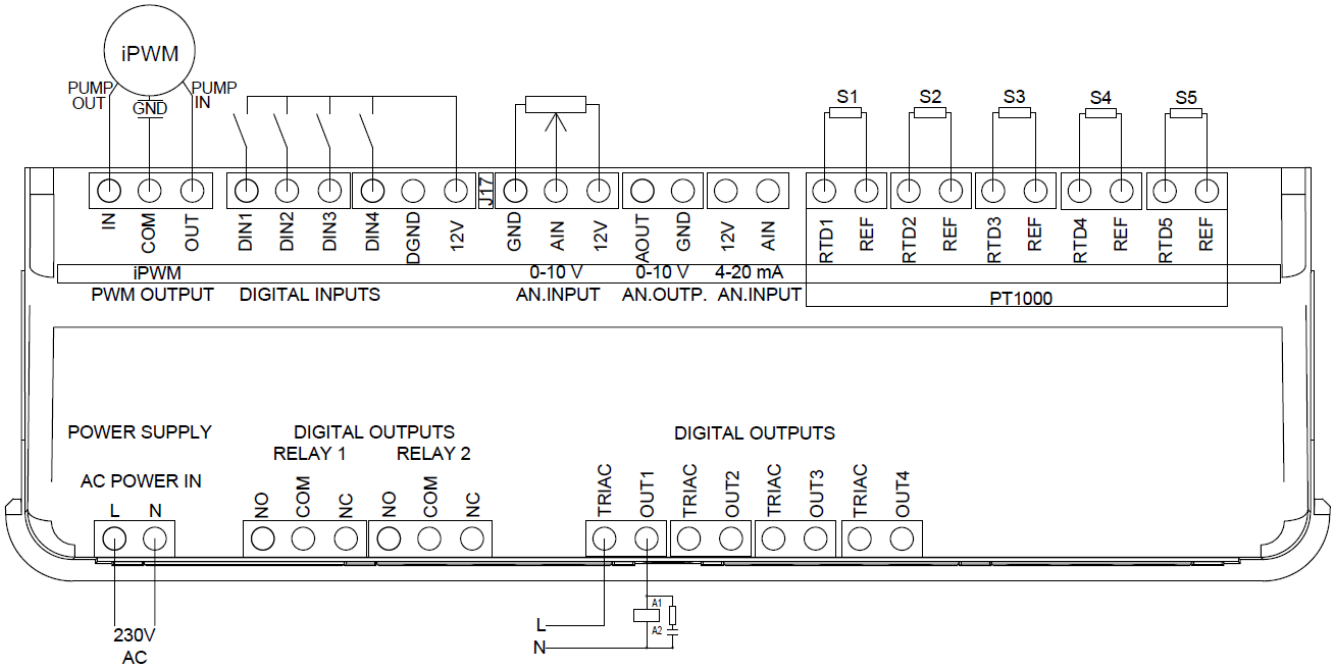


The HerzSol microprocessor controller has been developed on a platform of the latest technologies in electronics and information technology, and in terms of manufacturing quality and performance, it matches leading global manufacturers of microprocessor controllers.
The HerzSol microprocessor controller is primarily intended for solar heating systems, as well as for district heating, central heating, cooling, and air conditioning systems. It can be used to manage the operation of systems such as heat substations, radiator and floor heating, preparation of domestic hot water, simpler climate chambers, ventilation systems, and for regulating the heating of boilers with groups of electric heaters, among other systems. The HerzSol microprocessor controller is pre-programmed with software according to specific applications.
Depending on the applications, it supports up to 2 control heating circuits.
The built-in real-time clock allows for the execution of time programs (reduction of heating, operation within a specified time interval, operation in time sequences, time changes of set values, etc.). In the event of a power outage, all operational parameters are preserved, and upon restoration of power, automatic operation resumes. The device is equipped with a Wi-Fi communication interface, enabling the export of all set parameters, measured values, and alarm states, as well as connection to a broader communication system.

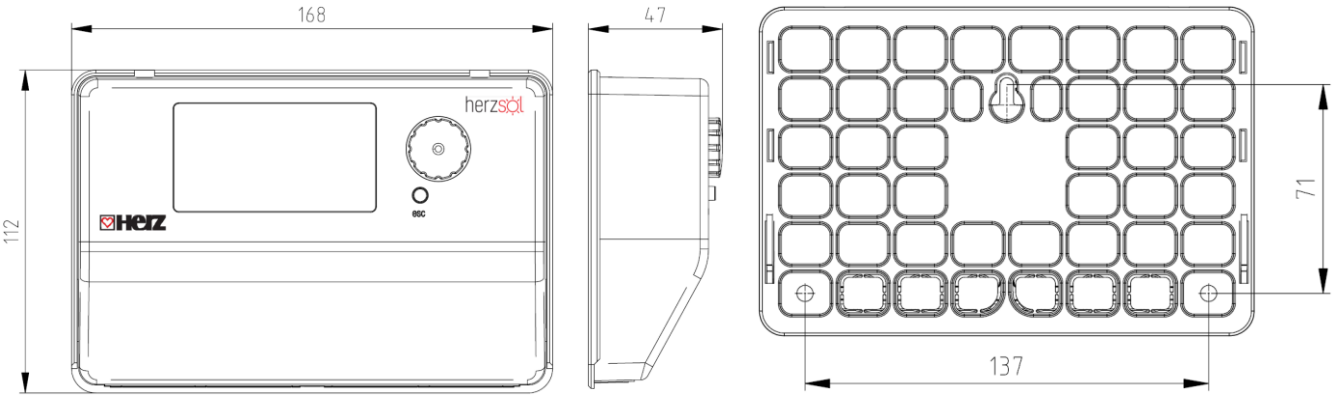
Technical data

Power supply	230 V AC, 50 Hz
Digital inputs	4 x optically isolated (DIN1..4)
Digital outputs	4 x Triac (16A) (TRC1..4) 2 x Relay (16A) (RLY1..2)
Analog inputs	5 x Pt1000 (S1..5) 1 x 0-10V (VIN1) 1 x 4-20mA (AIN1)
Analog outputs	1 x 0-10V (VOUT1)
PWM interface for high efficiency pumps	1 x iPWM (V1)
Communication	1 x WiFi
Display	Graphic monochrome 128 x 64 px
Installation	Wall mounting
Working temperature	0 - 50 °C
Working humidity	Max. 75% RH, without condensation
CE Markings according to standards	**Directive EMC 2014/30/EU**
	EN IEC 61000-6-2:2019
	EN IEC 61000-6-3:2021
	EN IEC 61000-6-4:2019
	Rulebook on Electromagnetic Compatibility (Official gazette of RS 25/2016 and 21/2020)
	Directive LVD 2014/35/EU
	IEC 61010-1:2010
	Rulebook on Electrical equipment designed for use within certain voltage limits (Official gazette of RS)

Input-Output ports



Dimensions



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Quality management, environmental management and occupational health and safety management are carried out in accordance with the requirements of international standards.

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018