

Digital controllers VECON 10P

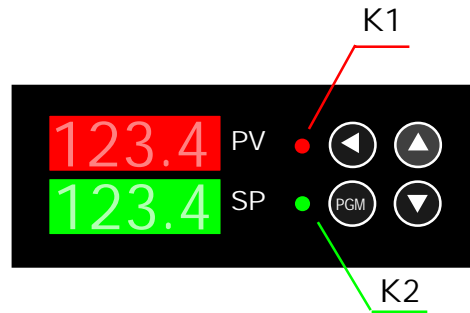


VECON 10P is a digital controller for measurement and control of variety of technological variables such as temperature, relative humidity, pressure, etc with profile control capabilities.

TECHNICAL DATA:

measurement input:	Pt100; thermocouples J, K, S; sensor for relative humidity; ( 4 ... 20 ) mA
outputs:	a) 1 relay 250 V AC / 4 A b) 1 transistor c) current signal ( 4 ... 20 ) mA
control algorithm:	profile, 10 point ( ON / OFF )
accuracy:	0,25% from span
hysteresis:	programmable 0,2 ... 5 °C
data backup:	EEPROM
temperature compensation ( for TC):	automatic
measurement circuit monitoring:	for probe break and short-circuit
electrical connection:	screw terminals 2,5 mm <sup>2</sup>
power supply:	220 V AC ; 24 V AC
consumption:	Max. 3 VA
operating conditions:	
a) temperature:	0 to +45 °C
b) operating humidity:	0 to 80% ( 25 °C )
mounting:	on panel - horizontal or vertical
protection:	front panel - IP 54, rear - IP 20
dimensions:	96 x 48 x 135 mm depth 130 mm
panel cutout:	92 x 44 mm

FRONT PANEL:



The keyboard has 4 buttons with following functions:

- select mode
- select next parameter
- increase parameter value
- decrease parameter value

The display consists of 2 rows of 7-segment LED-indicators.

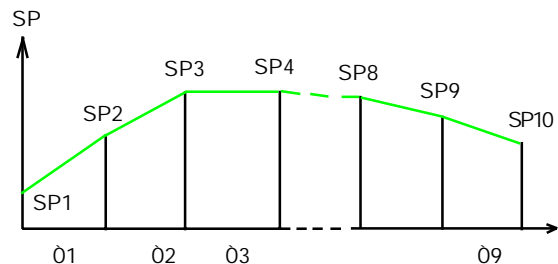
First row (red) indicators is for measurement value (PV), the second (green) is for set point value (SP).

Red LEDs indicated the output relay condition (K1).

PARAMETERS:

There are following parameters for input:

- SP1 ... SP10 - set point values
- T1 ... T9 - time intervals
- Hd - hysteresis



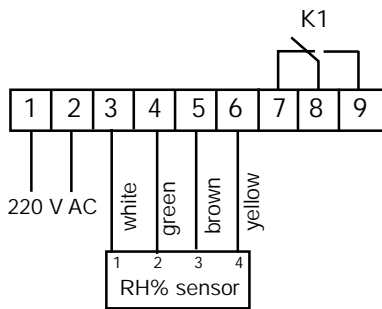
DIAGNOSTICS:

The measuring input is monitoring for probe break or short - circuit errors.

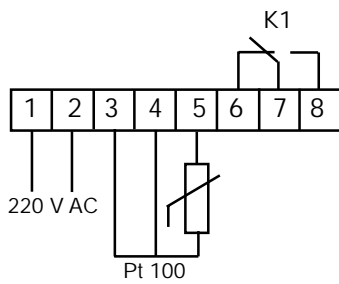
- The following error messages are displayed:
- Err1 - short circuit in measuring input
  - Err2 - probe break ( no signal ) in measuring input

CONNECTION DIAGRAMS:

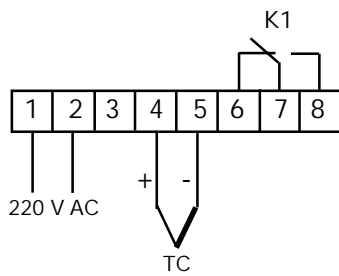
a) for sensor for relative humidity RH%



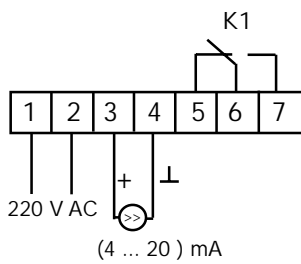
b) for Pt 100 sensor



c) for thermocouple



d) for sensor with current signal (4 ... 20) mA



DIMENSIONS:

