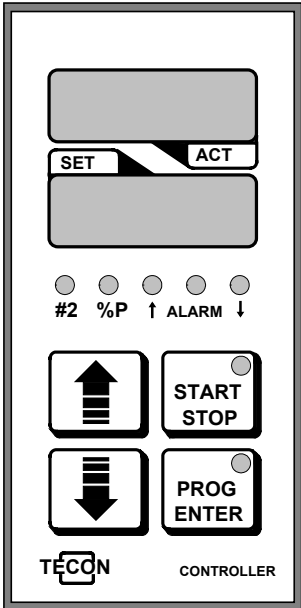
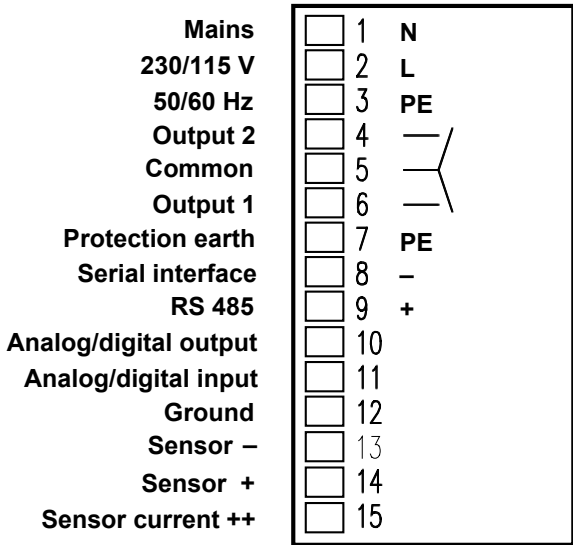


TECON 132 Universal Controller



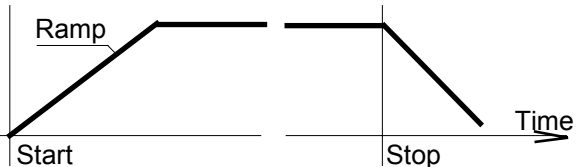
The three-term-PID controller TECON 132 is a member of a series of fixed setpoint, programmable and cascade controllers. It is designed for simple controlling tasks and is adjustable in large ranges. With one additional programmable in- and output each and a serial interface it can be used in larger systems. Nominal and actual value and power output can be indicated by key with large, bright LED digits. The sensor inputs can be adjusted by key to different thermocouples, resistor temperature detectors and current signals. The controller contains 2 connected relay outputs. It can store 2 nominal values, which can be switched over from the outside. It can store 2 nominal values, which can be switched from outside. A ramp can be programmed for temperature rise and fall, so that the rate of temperature change can be limited. A version with 1 program sector is available too. The device is connected with plug-in screw terminals.

Connections:

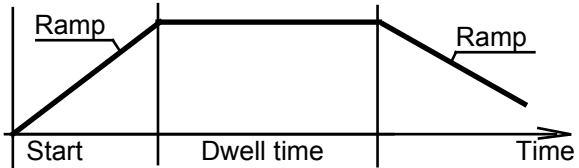


Set point programming:

Ramps at start and stop
(Version 001)



1 Program sector
(Version 002)



	subject to changes without notice	TECON AG Werkstrasse 1 CH-9242 Oberuzwil Tel. 071 951 23 33 Fax. 071 951 15 77
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TECON 132 Universal Controller

Technical data

Temperature sensors		Measuring range:
Thermocouples	NiCr-Ni (K)	-200 to 1200 °C
	Fe-Co (J)	-200 to 750°C
	Pt10Rh-Pt (S)	0 to 1600°C
	Nicrosil-Nisil (N)	-200 to 1200°C
	Pt13Rh-Pt (R)	200 to 1600°C
	Pt18Rh-Pt (B)	200 to 1800°C
RTD	Pt 100	-200 to 750°C
	Pt 100 with Zener barrier 84 Ohm	-200 to 400°C
Current	4- 20 mA	-200 - 2000°C
	0- 20 mA	-200 - 2000°C
Temp. measurement	Accuracy :	0.3% of the range
	Resolution :	16000 points
	Number of measurements per second	10
Actual value indication	Display :	4 digits, LED 7.5 mm height
	Resolution :	0.1 or 1°C
Nominal value	Range:	programmable
	Resolution:	0.1 or 1°C
	Entry by keys or through analogue signal or via the serial interface	
	analogue input:	1 or 10 mV/°C or 0/4 - 20 mA
Limit values	High and low limit, deviation from nominal value. Sensor break turns off.	
Control system	PID-controlling, for heating and cooling separate parameters	
	Proportional band	0 - 999°C
	Lag time	0 - 9999 s
	Lead time	0 - 999 s
	Relay interval time	0 - 999 s
	Dead range between heating/cooling	0 - 99.9°C
	Self adapting on keystroke while heating up.	
Additional input	Analogue or digital	programmable, current or voltage
Additional output	Analogue or digital	programmable, current or voltage
	Range	-2 to 10 V or 0/4 to 20 mA
	Resolution of the DA-converter	8000 points
	Accuracy	0.5 % of the range
Controller outputs	Number (available: relay or DC-signal)	2
	Relay contact	230 V AC, max. 2 A
	DC-signal	24 V, internal resistance 1 kOhm
Temperature programs	Ramp (gradient)	0.1-999.9°C/h
Serial interface	Type	RS 485, 2-conductor
Mains supply	alternately	230/115 V , 50/60 Hz, 10 VA
Ambient temperature		0 to 50°C



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Ambient humidity		10 to 90% rF
Dimensions	Front frame	48 x 96 mm , 5 mm high
	Controller with case can be exchanged from the front, can be mounted in any position	
	Mounting depth	125 mm
Weight		0.5 kg
Type of protection	Panel	IP 64
	Enclosure	IP 20
Safety		EN 60065
EMC	Immunity	pr EN 50 082-2
	Emission	EN 50 081-1



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