## **PDI 92 PID Controller**





- 48x96 mm case, for flush-in panel mounting
- °C/°F/Kelvin unit selectable for temperature probe
- 5 outputs status LEDs
- AUTOTUNING function
- Heater Break Alarm function enable

## **Product Description**

Digital microprocessor based controller with dual display, 4 red + 4 green digits and 3 operation bottons, designed for different application such as Plastics Industries, Thermal Equipment, Packaging Machinery, processing Textile/die machinery, generic cooling/heating process, water chillers, eat recovery system, Chemical, etc. Multi input and up to 5 configurable outputs for relay or solid state

relay (SSR) driving. 1 or 2 regulation outputs, 1 or 2 alarm outputs and 1 HB alarm output. Different alarm output configuration available. The device incorporates different control modes: ON/OFF, single or double (direct and reverse) action PID control.

parameters Multi-level programming protected by password.

Ordering Key PDI92 T XX 2R R X H

Model —	
Input Signal —	
Output A (HB)	
Output B and Output C	
(Al1 or Al1+Al2)	
Output D (C1)	
Output E (C2)	_
Power Supply ———————————————————————————————————	

## **Approvals**



# **Type Selection**

Input Signal		Input Signal		Heater Break Alarm HB (OUT A)	, , ,	+ Al2) (OUTB (OU	Main output C1 Second output C2 F (OUTD)		Po	wer Supply
T:	TC (J, K, R, S, T), RTD Pt100	XX: No HR: Relay Output (HB) HO: 24VDC output for SSR driving (HB)	xX: No 1R: 1 Alarm with Relay Output (Al1) 10: 1 Alarm with SSR driving (Al1) 2R: 2 Alarms with Relay Output (Al1+Al2) 20: 2 Alarms with SSR driving (Al1+Al2)	R:	5A-AC1, 2A-AC3/250VAC Relay or 24VDC for SSR			L:	90240VAC 24VAC/DC	

#### Input Data

One multi-configurable Input Thermocouples	TC J, K, R, S, T - According to IEC 584-2, accuracy class 1 or 2
Thermoresistance	RTD Pt100 - According to IEC 751, accuracy class A or B
One Current Transformer Input	CT Input with K=1/0.002 (max 200mA)

#### **Output Data**

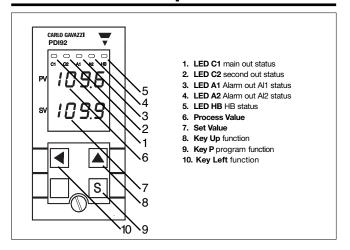
Un to five Outroute	
<b>Up to five Outputs</b> Relay	(5A-AC1, 2A-AC3 / 250VAC) (10A max. per common)
Relay electric life	100000 operations
Voltage SSR driving	24VDC/0mA, 14VDC/20mA
Note:	HB, Al1 and Al2 alarms Outputs have to be the same type.



### **Functional Data**

Control	ON/OFF, PID single and
	double action programmable
Overall accuracy	±0.25% full scale,
Display resolution	According to the used
	probe 1/0,1
Input measurement range	According to the used
	probe and to the
	measurement unit
Sampling rate	1 samples per second
Display	4 red + 4 green digits h=7 mm
Parameter access	Protected by password
Fast parameters programming	By using programming
	PDI-KEY
Operating temperature	0-55 °C
Operating humidity	30-95 RH% without
	condensation

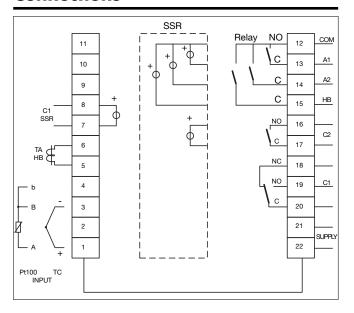
## **Front Panel Description**



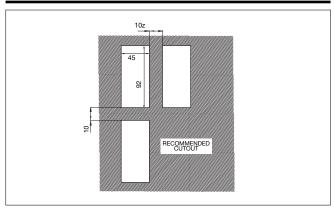
## **General Data**

Mechanical Charactistics	
Housing	Self-extinguishing plastic,
	UL94 V0
Connections	6.3mm faston terminal block
Mounting	Flush in panel
	cut out 45x92mm
Front panel protection	IP54 mounted in panel
	with gasket
Dimensions	W 48 x H 96 x D 100mm
Weight	290g
Storage temperature	-10°C to +60°C
Electrical Data	
Power Supply	24VAC/VDC,
	90-240VAC +/-10%
AC Frequency	50 / 60Hz
Power consumption	7VA approx.
Electric shock protection class	Class II for Front panel
Insulation	Reinforced insulation
	between the low voltage
	section (power supply and
	relay outputs) and the front
	panel or between the low
	voltage section (power
	supply 100-240VAC and relay
	outputs) and the extra low
	voltage section (inputs and
	SSR outputs);
	no insulation between SSR
	outputs and input.

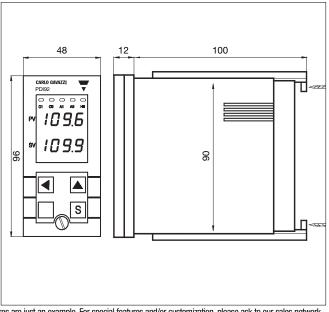
## **Connections**



# Panel Cut Out (mm)



# **Dimensions (mm)**



Specifications are subject to change without notice. Pictures are just an example. For special features and/or customization, please ask to our sales network.