



IR32 Universal Electronic Controllers

The IR32 universal electronic controllers can be used to control temperature, humidity, air pressure or other variables using appropriate sensors. Versions are available to accept NTC, PT100, J and K type thermocouples, DC Voltage and DC mA inputs, and are available with 1, 2 and 4 relay outputs or 1 and 4 SSR outputs.

The controllers offer nine different control modes including on/off, proportional or proportional integral control. They all feature a simple user interface and are housed in a compact panel mounting enclosure. All versions can be connected to a network for monitoring and programming, using the optional RS-485 serial card. The IR32 controllers are powered from 12 to 24Vac/dc and optional transformers are available for powering the controllers from 110Vac or 230Vac.

Models Available

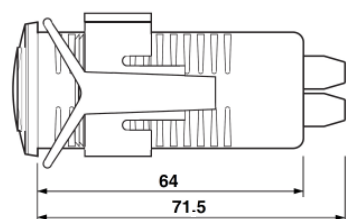
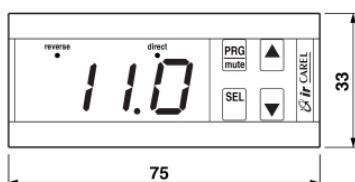
- IR32V** 1 Relay Output Digital Controller
- IR32W** 2 Relay Output Digital Controller
- IR32Z** 4 Relay Output Digital Controller
- IR32D** 1 SSR Output Digital Controller
- IR32A** 4 SSR Output Digital Controller

Product Features

- Temperature input or process input
- Relay or SSR output versions
- 9 preset control modes
- Infrared receiver and buzzer
- Panel mounting
- IP65 enclosure
- 12 to 24Vac/dc powered
- Transformers available for 110V or 230V

For digital temperature or process monitoring and control

Dimensions



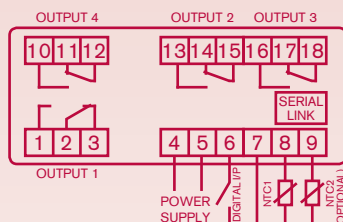
Panel cutout 71mm x 29mm (-0.0/+0.5)

Allow 95mm x 40mm clearance around controller for panel clip

All dimensions in mm

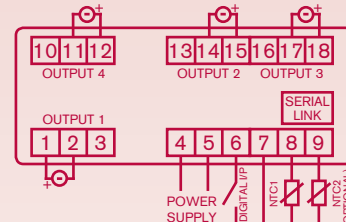
Connections

IR32V0 / IR32W0 / IR32Z0



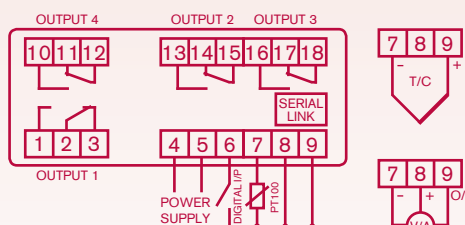
IR32V0 - OUTPUT 1 ONLY
IR32W0 - OUTPUTS 1 AND 2
IR32Z0 - OUTPUTS 1, 2, 3 AND 4

IR32D0 / IR32A0



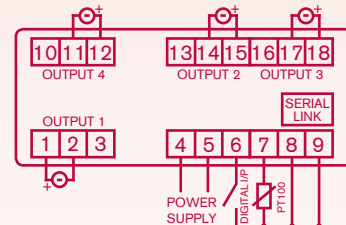
IR32D0 - OUTPUT 1 ONLY
IR32A0 - OUTPUTS 1, 2, 3 AND 4

IR32V1 / IR32V2 / IR32V3 / IR32V4 IR32W1 / IR32W2 / IR32W3 / IR32W4 IR32Z1 / IR32Z2 / IR32Z3 / IR32Z4



IR32V - OUTPUT 1 ONLY
IR32W - OUTPUTS 1 AND 2
IR32Z - OUTPUTS 1, 2, 3 AND 4

IR32D1 / IR32D2 / IR32D3 / IR32D4 IR32A1 / IR32A2 / IR32A3 / IR32A4



IR32D - OUTPUT 1 ONLY
IR32A - OUTPUTS 1, 2, 3 AND 4

Ordering information

Model	Code	Description
	IR32V	1 Relay Output Digital Controller
	IR32W	2 Relay Output Digital Controller
	IR32Z	4 Relay Output Digital Controller
	IR32D	1 SSR Output Digital Controller
	IR32A	4 SSR Output Digital Controller

Input	Code	Description
	0	NTC -50 to 90°C
	1	PT100 -99 to 600°C
	2	K Type Thermocouple -99 to 999°C J Type Thermocouple -99 to 800°C
	3	0-20mA or 4-20mA (scaled -99 to 999 units)
	4	-0.5 to +1Vdc (scaled -99 to 999 units)

IR Sensor & Buzzer	Code	Description
	E000	Economic - No Infrared Sensor or Buzzer (V0 only)
	L000	Infrared Sensor & Buzzer (IR32V & IR32D)
	0000	Infrared Sensor & Buzzer (IR32W, IR32Z & IR32A)

Options	Code	Description
	TRA12UNI11	110/12Vac Transformer
	TRA12UNI00	240/12Vac Transformer
	IRTRUE0000	Remote control for IR32 universal
	IR32SER00E	RS485 serial communication card

Example	IR32W20000
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Options**Temperature Probes**

A range of NTC, PT100 and thermocouple temperature probes are available to suit the IR32 controllers.

Remote Control

The infrared remote control allows access to all the main functions and configuration parameters for easy set up of all IR32 controllers from a distance.

Specification**Accuracy:**

- $\pm 0.5\%$ of scale range

Power Supply Voltage:

- 12 to 24Vac/dc ($\pm 10\%$)
- 110Vac with TRA12UNI11 transformer
- 230Vac with TRA12UNI00 transformer

Frequency:

- 50/60Hz

Burden:

- $< 3\text{VA}$

Probe Supply:

- 10Vdc @ 30mA internal

Inputs:

- 1 or 2 NTC, PT100, J T/c, K T/c, mA, V

Resolution:

- 0.1°C or 1°C selectable

Digital Inputs:

- Programmable to switch between setpoints or to act as an alarm

Relay Output:

- NTC I/P: 1, 2 or 4 changeover contacts
- IR32V: 1 N/O contact
- IR32W: 1 N/O & 1 changeover contact
- IR32Z: 1 N/O & 3 changeover contacts
- 8A at 250Vac (resistive)

SSR Output:

- Maximum output 10V/15mA
- Maximum output resistance 660 ohms

Operating Temperature & Humidity:

- 0°C to 50°C
- $< 90\%$ rH (non-condensing)

Storage Temperature:

- -10°C to 70°C

Enclosure Code:

- Case IP65

Weight:

- IR32V: 200g
- IR32W: 220g
- IR32Z: 240g
- IR32D: 200g
- IR32A: 240g

Markings:

- CE marked (meets EN61010-1 low voltage and EN50081-1/50082-1 EMC directives)

Specification subject to change without notice.

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