

Ordering information

Model	Code	Description
IR33V	1	Relay Output Digital Controller
IR33W	2	Relay Output Digital Controller
IR33Z	4	Relay Output Digital Controller
IR33A	4	SSR Output Digital Controller
IR33B	1	Relay & 0-10Vdc Output Digital Controller
IR33E	2	Relay & 2 0-10Vdc Output Digital Controller

Input	Code	Description
7		NTC (-50 to 90°C) NTC-HT (-40 to 150°C) PTC (-50 to 150°C) PT1000 (-50 to 150°C)
9		All above inputs and in addition: PT1000 (-199 to 800°C) PT100 (-199 to 800°C) J/K Type Thermocouples DC Voltage 0-1V, -0.5 to +1.3V, 0-10V, 0-5V ratiometric DC Current 0-20mA, 4-20mA

Auxiliary Power	Code	Description
LR20		12 to 24Vac, 12 to 30Vdc
MR20		24Vac/dc
HR20		115-230Vac

Options	Code	Description
IR12UNI11		110/12Vac Transformer
IR12UNI00		240/12Vac Transformer
IR2400001		240/24Vac Transformer
IRTRUESES000		Remote control for IR33 universal
IROPZKEY00		Programming key with battery
IROPZKEYA0		Programming key with 230V power supply
IROPZ485S0		RS485 serial communication interface

Example**IR33V7LR20****Options****Temperature Probes**

A range of NTC, PTC, PT100 and thermocouple temperature probes are available to suit the IR33 controllers.

Remote Control

The infrared remote control allows access to all the main functions and configuration parameters for easy set up of all IR33 controllers from a distance.

Programming Key

All IR33 controllers can be programmed quickly using the optional programming key, even when not powered, reducing the risk of errors.

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Specification**Accuracy:**

- ±0.5% of scale range

Power Supply Voltage:

- LR: 12 to 24Vac (±10%), 12 to 30Vdc
- 110Vac with TRA12UNI11 transformer
- 230Vac with TRA12UNI00 transformer
- MR: 24Vac/dc
- 230Vac with TRA2400001 transformer
- HR: 115-230Vac (-15% to +10%)

Frequency:

- 50/60Hz

Burden:

- LR or MR: <4VA
- HR: <6VA

Inputs:

- NTC / PTC / PT1000
- PT100, J/K, V, mA (universal model only)

Digital Inputs:

- 2 voltage free contacts
- Contact resistance <10ohms
- Closing current 6mA

Relay Output:

- 1, 2 or 4 pole relay contacts
- 8A at 250Vac (resistive)
- 4A at 250Vac (inductive, $\cos\theta = 0.6$)
- 100,000 operations

SSR Output:

- Maximum output 12V/20mA
- Maximum output resistance 600 ohms

Analogue Output (0-10Vdc):

- Typical ramp time (10-90%) < 1sec
- Maximum output ripple 100mV
- Maximum output current 5mA
- Maximum length of cables 10m

Operating Temperature & Humidity:

- -10°C to 50°C
- <90% rH (non-condensing)

Enclosure Code:

- Case IP65

Weight:

- IR33V/IR33A/IR33B: 200g
- IR33W/IR33E: 220g
- IR33Z: 240g

Markings:

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

Specification subject to change without notice.