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PJ Easy On/Off Controllers

Models Available

PJEZM On/Off Temp. Monitor
PJEZS 1 Relay On/Off Temp. Controller
PJEZY/X 2 Relay On/Off Temp. Controller
PJEZC 3 Relay On/Off Temp. Controller

Product Features

- NTC or PTC thermistor probe inputs
- Up to 3 relay outputs
- Built in alarm buzzer and real time clock
- Panel mounting
- IP65 enclosure
- 12Vac, 110Vac or 230Vac powered
- RS-485 serial connection option
- Plug-in terminals
- Front panel mounting system

The PJ Easy on/off temperature controllers are designed for the management of refrigerated units, display cases and chiller cabinets.

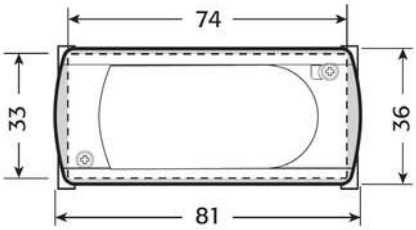
Versions are available with 1 or 3 NTC or PTC inputs and 1, 2 or 3 relay outputs for control of the compressor, active defrost and ventilation fan.

The controllers are powered from 12Vac, 110Vac or 230Vac, feature a simple user interface and can also be programmed rapidly using the optional plug-in programming key.

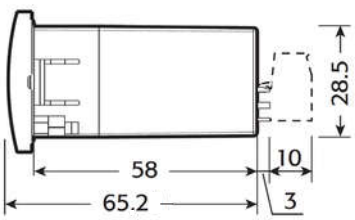
The PJ Easy controllers are housed in a compact panel mounting enclosure and can be installed from the front of the panel using the plug-in terminals.

For digital monitoring and control of refrigerated units or display cases

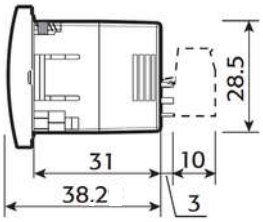
Dimensions



PJEZ



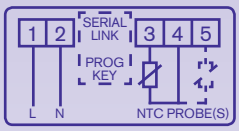
PJEZ Compact



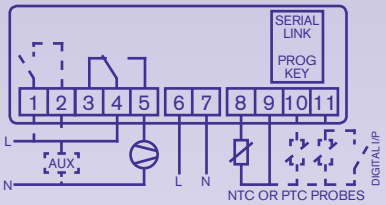
Panel cutout 71mm x 29mm (-0.0/+0.5)

Connections

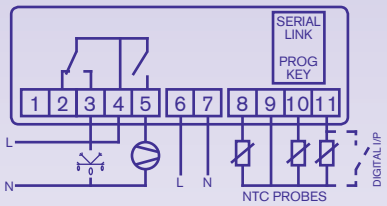
PJEZM Compact



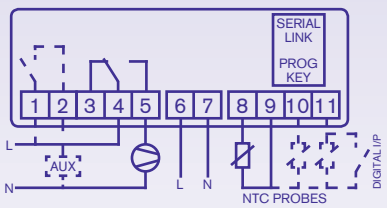
PJEZM / PJEZS



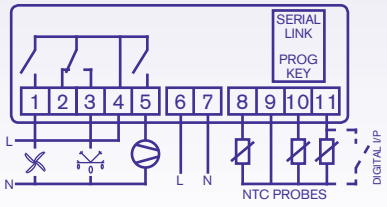
PJEZY



PJEZX



PJEZC



Ordering information

Model	Code	Description
	PJEZM	Refrigeration Monitor
	PJEZS	1 Relay Digital Refrigeration Controller For use on static refrigeration units (i.e. with no evaporator fan) with single NTC sensor input
	PJEZY	2 Relay Digital Refrigeration Controller For use on static refrigeration units with active defrost by heater with control and defrost NTC sensor input
	PJEZX	2 Relay Digital Refrigeration Controller (As above with independent relays)
	PJEZC	3 Relay Digital Refrigeration Controller For use on ventilated refrigeration units with compressor, defrost and fan control with 2 NTC sensor inputs and digital input / optional third NTC sensor input

Input	Code	Description
	N	NTC - Compact Version (PJEZM & PJEZS only)
	0	NTC
	6	PTC (PJEZS6P & PJEZS6A only)

Outputs	Code	Description
	N	N/A (PJEZMN and PJEZM0 only)
	0	8 Amp Compressor
	P	16 Amp Compressor
	H	2 HP Compressor
	G	2 HP Compressor with 8 Amp Auxiliary (PJEZS only)
	A	8 Amp Compressor with 8 Amp Auxiliary (PJEZS only)
	M	2 HP Compressor with Clock (PJEZC only)

Auxiliary Power	Code	Description
	2	12Vac
	1	110Vac
	0	230Vac

Serial Output	Code	Description
	E0	Economic - No Serial Output (PJEZS & PJEZM only)
	00	With Serial Output
	10	With Serial Output (PJEZM only)

Options	Code	Description
	IROPZKEY00	Programming key with battery
	IROPZKEYA0	Programming key with 230V power supply
	IROPZ485S0	RS485 serial communication interface

Example	PJEZS0P000

Temperature Probes

A range of NTC and PTC temperature probes are available to suit the PJ Easy controllers.

Programming Key

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

Specification

Accuracy:
- NTC: ±1°C
- PTC: ±1°C

Power Supply Voltage:
- 12Vac (-15/+10%)
- 110Vac (-15/+10%)
- 230Vac (-15/+10%)

Frequency:
- 50/60Hz

Burden:
- <1.5VA

Inputs:
- 1 or 3 NTC or PTC inputs (10kohm @ 25°C)
- Digital input alternative to third probe

Scale Range:
- -50 to +90°C

Resolution:
- 0.1°C

Relay Output(s):
- Output 1: Changeover contact (8A, 16A or 2HP)
- Output 2: N/O 8A contact (resistive)
- Output 3: N/O 8A contact (resistive)

Operating Temperature & Humidity:
- -10°C to 50°C
- <90% rH (non-condensing)

Storage Temperature & Humidity:
- -20°C to 70°C
- <90% rH (non-condensing)

Enclosure Code:
- Case IP65

Weight:
- 150g

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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