Jazz®	User Guide
JZ20-UA24/JZ20-J-UA24	▪ **9 Digital Inputs including one HSC, 2 Analog/Digital inputs, 2 Analog Inputs, 2 PT100/TC,5 Relay Outputs, 2 Transistor Outputs, 2 Analog Outputs**
JZ20-UN20/JZ20-J-UN20	▪ **9 Digital Inputs including one HSC, 2 Analog/Digital Inputs, 1 Analog Input ,1 PT100/TC , 5 Relay Outputs, 2 Transistor Outputs**

General Description

The products listed above are micro-PLC+HMIs, rugged programmable logic controllers that comprise built-in operating panels.

Detailed Installation Guides containing the I/O wiring diagrams for these models, technical specifications, and additional documentation are located in the Technical Library in the Unitronics website: https://unitronicsplc.com/support-technical-library/

Alert Symbols and General Restrictions

When any of the following symbols appear, read the associated information carefully.

Symbol	Meaning	Description
	Danger	The identified danger causes physical and property damage.
	Warning	The identified danger could cause physical and property damage.
Caution	Caution	Use caution.

- Before using this product, the user must read and understand this document.
- All examples and diagrams are intended to aid understanding, and do not guarantee operation. Unitronics accepts no responsibility for actual use of this product based on these examples.
- Please dispose of this product according to local and national standards and regulations.
- Only qualified service personnel should open this device or carry out repairs.

- Failure to comply with appropriate safety guidelines can cause severe injury or property damage.

- Do not attempt to use this device with parameters that exceed permissible levels.
- To avoid damaging the system, do not connect/disconnect the device when power is on.

Environmental Considerations

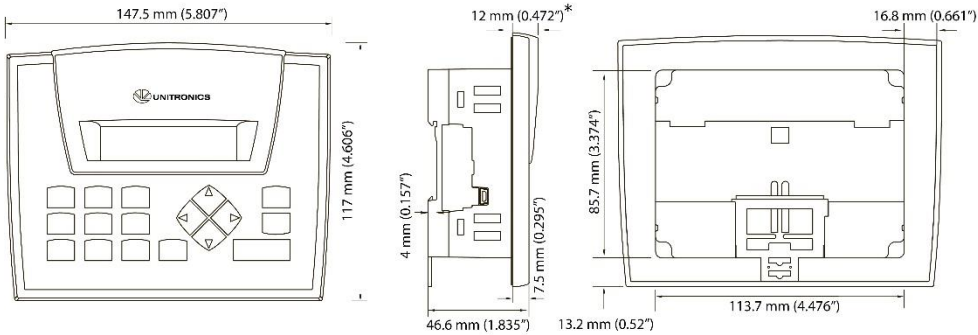
- Do not install in areas with: excessive or conductive dust, corrosive or flammable gas, moisture or rain, excessive heat, regular impact shocks or excessive vibration, in accordance with the standards given in the product's technical specification sheet.
- Do not place in water or let water leak onto the unit.
- Do not allow debris to fall inside the unit during installation.

- Ventilation: 10mm space required between controller's top/bottom edges & enclosure walls.
- Install at maximum distance from high-voltage cables and power equipment.

Mounting

Note that figures are for illustrative purposes only.

Dimensions



* * Note that for JZ20-J modules those dimensions are 7.5 mm (0.295").

Model	Cut-out	View area
JZ20-xxx\JZ20-J-xxx	117 x 89mm (4.606"x 3.504")	66 x 19.2mm (2.598"x 0.755")

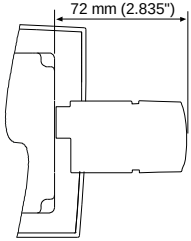
Add-on modules-
Available by separate order for communication and cloning.

Integral USB Port
This may be used for programming purposes.

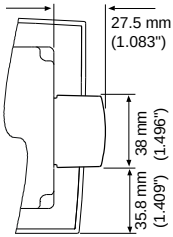
Note: the USB port and an Add-on module cannot be physically connected at the same time.

Add-on: during installation

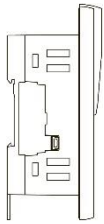
Installing an Add-on module requires sufficient clearance space



Add-on: after installation

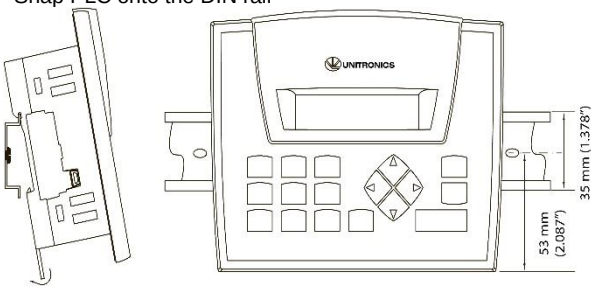


USB Port

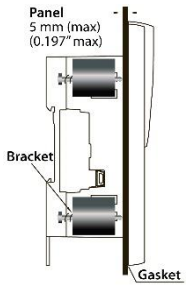


DIN-rail mounting

Snap PLC onto the DIN rail



Panel mounting



Note: Removing the unit requires clearance space. Recommendation: approximately 40mm (1.58")

Wiring

- Do not touch live wires.

- This equipment is designed to operate only in SELV/PELV/Class 2/Limited Power environments.
- All power supplies in the system must include double insulation. Power supply outputs must be rated as SELV/PELV/Class 2/Limited Power.
- Do not connect either the 'Neutral or 'Line' signal of the 110/220VAC to device's 0V pin.
- All wiring activities should be performed while power is OFF.
- Use over-current protection, such as a fuse or circuit breaker, to avoid excessive currents into the power supply connection point.
- Unused points should not be connected (unless otherwise specified). Ignoring this directive may damage the device.
- Double-check all wiring before turning on the power supply.

Caution

- To avoid damaging the wire, do not exceed a maximum torque of:
  - Controllers offering a terminal block with pitch of 5mm: 0.5 N·m (5 kgf·cm).
  - Controllers offering a terminal block with pitch of 3.81mm f 0.2 N·m (2 kgf·cm).
- Do not use tin, solder, or any substance on stripped wire that might cause the wire strand to break.
- Install at maximum distance from high-voltage cables and power equipment.

Wiring Procedure

Use crimp terminals for wiring;

- Controllers offering a terminal block with pitch of 5mm: 26-12 AWG wire (0.13 mm^2 –3.31 mm^2).
- Controllers offering a terminal block with pitch of 3.81mm: 26-16 AWG wire (0.13 mm^2 – 1.31 mm^2).

1. Strip the wire to a length of 7±0.5mm (0.270–0.300").
2. Unscrew the terminal to its widest position before inserting a wire.
3. Insert the wire completely into the terminal to ensure a proper connection.
4. Tighten enough to keep the wire from pulling free.

Wiring Guidelines

- Use separate wiring ducts for each of the following groups:
  - Group 1: Low voltage I/O and supply lines, communication lines.
  - Group 2: High voltage Lines, Low voltage noisy lines like motor driver outputs.

  Separate these groups by at least 10cm (4"). If this is not possible, cross the ducts at a 90˚angle.
- For proper system operation, all 0V points in the system should be connected to the system 0V supply rail.
- Product-specific documentation must be fully read and understood before performing any wiring.

Allow for voltage drop and noise interference with input lines used over an extended distance.
Use wire that is properly sized for the load.

Earthing the product

To maximize system performance, avoid electromagnetic interference as follows:

- Use a metal cabinet.
- Connect the 0V and functional ground points (if exist) directly to the earth ground of the system.
- Use the shortest, less than 1m (3.3 ft.) and thickest, 2.08mm² (14AWG) min, wires possible.

UL Compliance

The following section is relevant to Unitronics' products that are listed with the UL.

The following models: JZ20-R10,JZ20-J-R10,JZ20-R16,JZ20-J-R16,JZ20-J-R16HS, JZ20-R31, JZ20-J-R31,JZ20-J-R31L,JZ20-T10,JZ20-J-T10,JZ20-T18,JZ20-J-T18,JZ20-J-T20HS,JZ20-T40, JZ20-J-T40,JZ20-UA24, JZ20-J-UA24, JZ20-UN20,JZ20-J-UN20, JZ20-J-ZK2.

are UL listed for Ordinary Location.

UL Ordinary Location

In order to meet the UL ordinary location standard, panel-mount this device on the flat surface of Type 1 or 4 X enclosures

Panel-Mounting

For programmable controllers that can be mounted also on panel, in order to meet the UL Haz Loc standard, panel-mount this device on the flat surface of Type 1 or Type 4X enclosures.

Communication and Removable Memory Storage

When products comprise either USB communication port, SD card slot, or both, neither the SD card slot nor the USB port are intended to be permanently connected, while the USB port is intended for programming only.

Removing / Replacing the battery

When a product has been installed with a battery, do not remove or replace the battery unless the power has been switched off, or the area is known to be non-hazardous.

Please note that it is recommended to back up all data retained in RAM, in order to avoid losing data when changing the battery while the power is switched off. Date and time information will also need to be reset after the procedure.

UL des zones ordinaires:

Pour respecter la norme UL des zones ordinaires, monter l'appareil sur une surface plane de type de protection 1 ou 4X

Montage de l'écran:

Pour les automates programmables qui peuvent aussi être monté sur l'écran, pour pouvoir être au standard UL, l'écran doit être monté dans un coffret avec une surface plane de type 1 ou de type 4X.

Communication et de stockage amovible de mémoire (carte mémoire)

Produits comprend un port USB de communication, soit un port carte SD ou les deux, ni le port SD, ni le port USB ne sont censés être utilisés en permanence, tandis que l'USB est destiné à la programmation uniquement.

Retrait / Remplacement de la batterie

Lorsqu'un produit a été installé avec une batterie, retirez et remplacez la batterie seulement si l'alimentation est éteinte ou si l'environnement n'est pas dangereux.

Veuillez noter qu'il est recommandé de sauvegarder toutes les données conservées dans la RAM, afin d'éviter de perdre des données lors du changement de la batterie lorsque l'alimentation est coupée. Les informations sur la date et l'heure devront également être réinitialisées après la procédure

JZ20-UA24/JZ20-J-UA24 Inputs

This model comprises a total of 15 inputs in 4 groups.

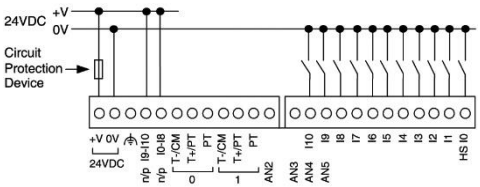
1. I0 to I8 are digital inputs. They may be wired, in a group, as either npn or pnp.
2. I9 and I10 may be wired as either digital or analog inputs. These may be wired as either:
   - npn digital inputs
   - pnp digital inputs
   - analog (voltage) inputs

   In addition, 1 input may be wired as a pnp input, while the other is wired as an analog input. Note that if 1 input is wired as an npn input, the other may not be wired as an analog input.
3. AN2 and AN3 are analog (current) inputs that may be wired using 2, 3, or 4 wires.
4. Analog Input 0 and 1 can function as either thermocouple or PT100 inputs; each PT100 signal has its own CM signal.

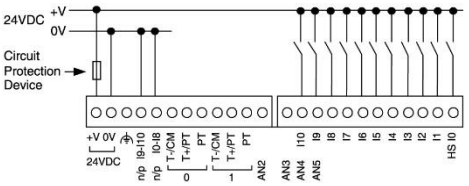
JZ20-UA24/JZ20-J-UA24 Digital Inputs, Controller's Power Supply

*Note**: The inputs are arranged in two groups. You can wire one group as npn and the other as pnp, or wire both groups as npn, or as pnp. In either case, the npn/pnp pins must be connected.***

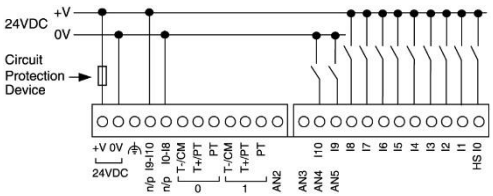
Input wiring, npn (sink)



Input wiring, pnp (source)



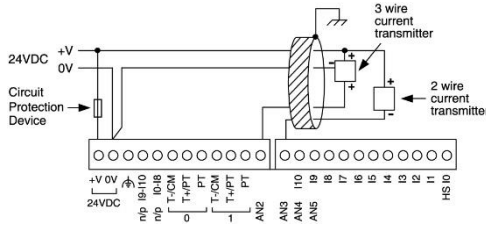
Input wiring (I0-I8), pnp (source), (I9-I10), npn (sink)



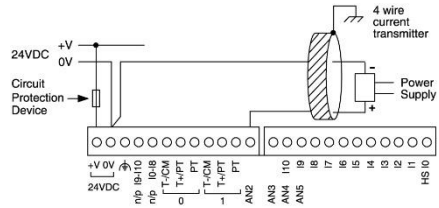
JZ20-UA24/JZ20-J-UA24 Analog Inputs

Note: ***Shields should be connected at the signal source.***

Analog Input wiring, current, 2 or 3 wire, AN2 and AN3

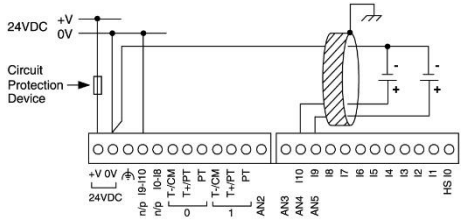


Analog Input wiring, current, 4 wire, AN2 and AN3

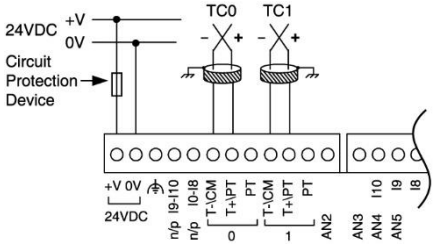


Analog Input wiring, voltage, AN4 and AN5

Note: If either I9 or I10 is wired as an npn digital input, the remaining input may not be wired as an analog input.



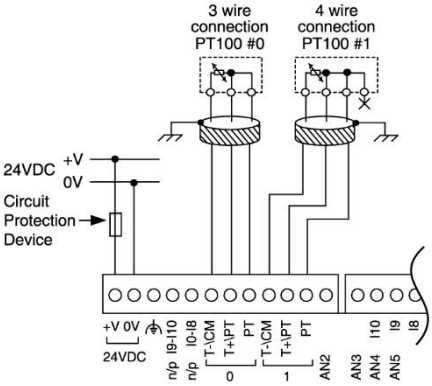
Thermocouple



- Thermocouple 0: use T- Input as negative input and T+ as positive.
- Thermocouple 1: use T- Input as negative input and T+ as positive.

Type	Temp. Range	Wire Color	
		ANSI (USA)	BS1843 (UK)
mV	-5 to 56mV		
B	200 to 1820˚C (300 to 3276˚F)	+Grey -Red	+None -Blue
E	-200 to 750˚C (-328 to 1382˚F)	+Violet -Red	+Brown -Blue
J	-200 to 760˚C (-328 to 1400˚F)	+White -Red	+Yellow -Blue
K	-200 to 1250˚C (-328 to 2282˚F)	+Yellow -Red	+Brown -Blue
N	-200 to 1300˚C (-328 to 3214˚F)	+Orange -Red	+Orange -Blue
R	0 to 1768˚C (32 to 3214˚F)	+Black -Red	+White -Blue
S	0 to 1768˚C (32 to 3214˚F	+Black -Red	+White -Blue
T	-200 to 400˚C (-328 to 752˚F)	+Blue -Red	+White -Blue

RTD

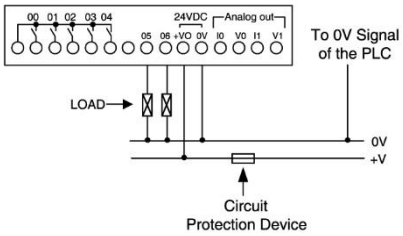


- PT100 (Sensor 0): use both inputs related to CM signal
- PT100 (Sensor 1): use both inputs related to CM signal
- 4 wire PT100 can be used by leaving one of the sensor leads unconnected.

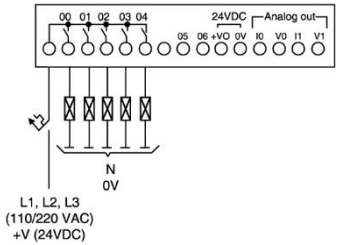
JZ20-UA24/JZ20-J-UA24 Digital Outputs, Outputs' Power Supply

PNP Outputs

+VO is the power supply input for pnp outputs O5–O6.



Relay Outputs

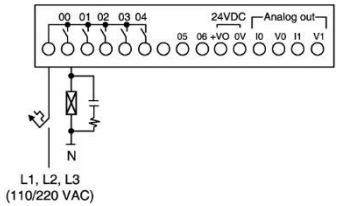


Increasing contact life span

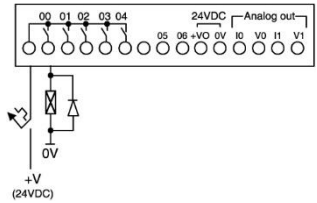
To increase the life span of your contacts & protect the unit from potential damage by reverse-EMF, connect:

- A clamping diode in parallel with each inductive DC load
- An RC snubber circuit in parallel with each inductive AC load

AC

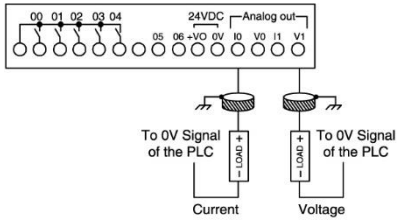


DC



Analog Outputs

Current/voltage connections



JZ20-UN20/JZ20-J-UN20 Inputs

This model comprises a total of 13 inputs in 4 groups.

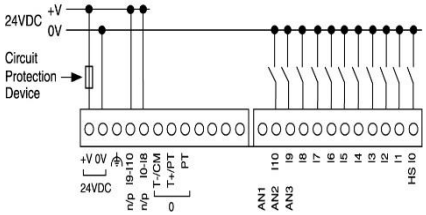
5. I0 to I8 are digital inputs. They may be wired, in a group, as either npn or pnp.
6. I9 and I10 may be wired as either digital or analog inputs. These may be wired as either:
   - npn digital inputs
   - pnp digital inputs
   - analog (voltage) inputs

   In addition, 1 input may be wired as a pnp input, while the other is wired as an analog input. Note that if 1 input is wired as an npn input, the other may not be wired as an analog input.
7. AN1 is an analog (current) input that may be wired using 2, 3, or 4 wires.
8. Analog Input 0 can function as either thermocouple or PT100 input.

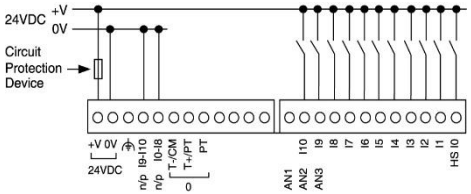
JZ20-UN20/JZ20-J-UN20 Digital Inputs

*Note**: The inputs are arranged in two groups. You can wire one group as npn and the other as pnp, or wire both groups as npn, or as pnp. In either case, the npn/pnp pins must be connected.***

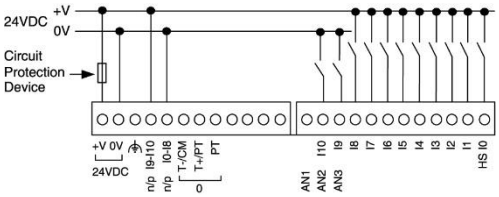
Input wiring, npn (sink)



Input wiring, pnp (source)



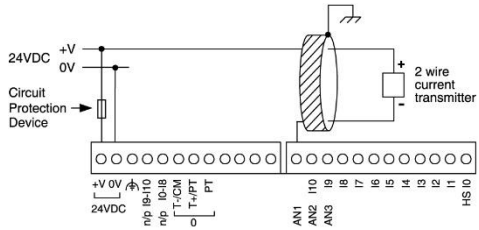
Input wiring (I0-I8), pnp (source), (I9-I10), npn (sink)



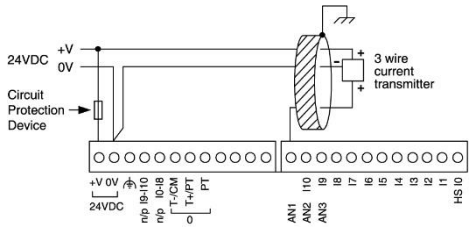
JZ20-UN20/JZ20-J-UN20 Analog Inputs

Note: ***Shields should be connected at the signal source.***

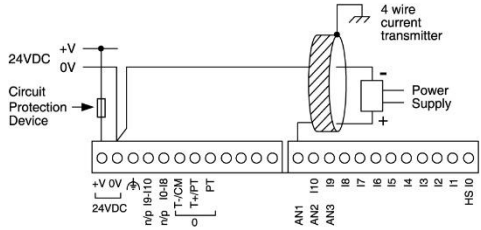
Analog Input wiring, current, 2 wire, AN1



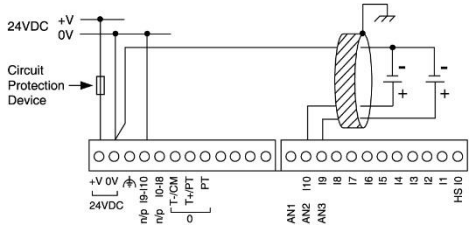
Analog Input wiring, current, 3 wire, AN1



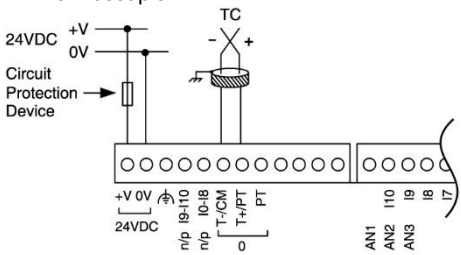
Analog Input wiring, current, 4 wire, AN1



Analog Input wiring, voltage, AN2 and AN3



Thermocouple



- Thermocouple 0: use T- Input as negative input and T+ as positive.

Type	Temp. Range	Wire Color	
		ANSI (USA)	BS1843 (UK)
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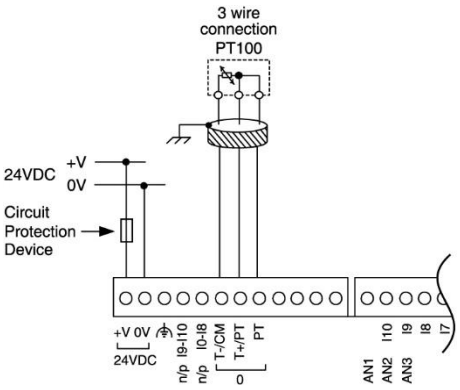
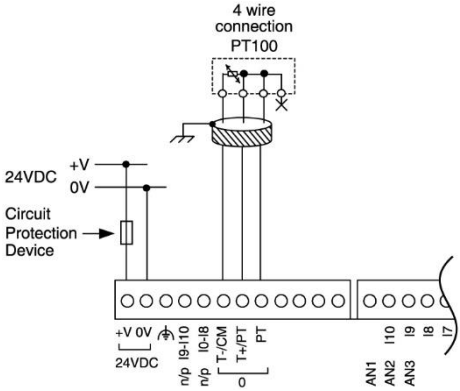
J	-200 to 760˚C (-328 to 1400˚F)	+White -Red	+Yellow -Blue
K	-200 to 1250˚C (-328 to 2282˚F)	+Yellow -Red	+Brown -Blue
N	-200 to 1300˚C (-328 to 3214˚F)	+Orange -Red	+Orange -Blue
R	0 to 1768˚C (32 to 3214˚F)	+Black -Red	+White -Blue
S	0 to 1768˚C (32 to 3214˚F	+Black -Red	+White -Blue
T	-200 to 400˚C (-328 to 752˚F)	+Blue -Red	+White -Blue

RTD

- PT100 (Sensor 0): use both inputs related to CM signal

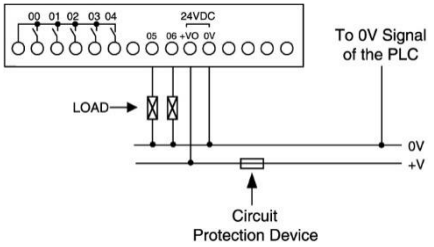




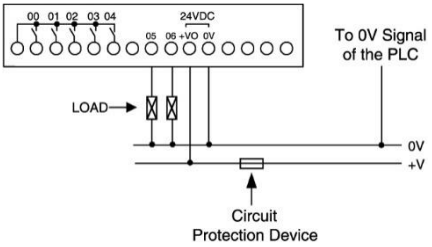
JZ20-UN20/JZ20-J-UN20 Digital Outputs, Outputs' Power Supply

PNP Outputs

+VO is the power supply for pnp outputs O5–O6.



Relay Outputs

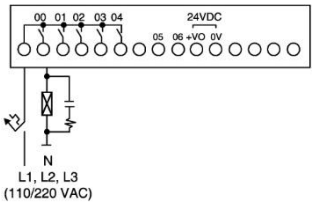


Increasing contact life span

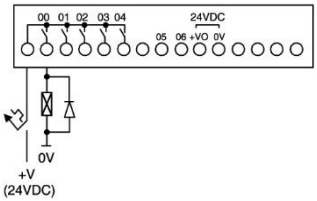
To increase the life span of your contacts and protect the unit from potential damage by reverse-EMF, connect:

- A clamping diode in parallel with each inductive DC load
- An RC snubber circuit in parallel with each inductive AC load

AC



DC



Technical Specifications

Power supply

Input voltage	24VDC	
Permissible range	20.4VDC to 28.8VDC with less than 10% ripple	
Current Consumption	See Note 1	
	JZ20-UA24 JZ20-J-UA24	JZ20-UN20 JZ20-J-UN20
Max. current consumption	230mA@24VDC	185mA@24VDC

Notes:

1. To calculate the actual power consumption, subtract the current for each unused element from the maximum current consumption value according to the values below:

	Per relay output	LCD backlight	Per Analog Output, (JZ20-UA24/ JZ20-J-UA24 only)
Max. current per element	5.5mA@24VDC	35mA@24VDC	23mA

Digital Inputs

Number of inputs	11 (Two groups) – see Note 2 & 3
Input type	pnp (source) or npn (sink)
Galvanic isolation	None
Nominal input voltage	24VDC
Input voltage	
pnp (source)	0-5VDC for Logic '0' 17-28.8VDC for Logic '1'
npn (sink)	17-28.8VDC for Logic '0' 0-5VDC for Logic '1'

	I0-I8	I9-I10
Input current	3.7mA@24VDC	1.2mA@24VDC
Response time	10mSec typical	20mSec typical

Input cable length	Up to 100 meters, unshielded
High speed inputs	Specifications below apply when wired as H.S.C. See Note 4.
Resolution	16-bit
Frequency	5kHz maximum
Minimum pulse width	80µs

Notes:

2. JZ20-UN20/ JZ20-J-UN20 and JZ20-UA24/ JZ20-J-UA24 comprise I0-I8; these inputs are arranged in a single group. Via wiring, the entire group may be set to either pnp or npn.
3. JZ20-UN20/ JZ20-J-UN20 and JZ20-UA24/ JZ20-J-UA24 comprise I9 & I10. These may be wired as either digital or analog inputs, as shown in the JZ20-UA24/ JZ20-J-UA24 and JZ20-UN20/ JZ20-J-UN20 Installation guides. I9 & I10 may be wired as npn, pnp, or 0-10V analog inputs. one input may be wired as pnp, while the other is wired as analog. If one input is wired as npn, the other may not be wired as analog.

4. I0 can function as either a high-speed counter or as a normal digital input. When used as a normal digital input, normal input specifications apply.

Digital Outputs

Relay	
Number of Outputs	5
Output type	SPST-NO (Form A)
Galvanic isolation	By relay
Type of relay	Tyco pcn-124D3MHZ or compatible
Output current	3A maximum per output (resisitve load) 8A maximum total for common
Rated voltage	250VAC / 30VDC
Minimum load	1mA@5VDC
Life expectancy	100k operations at maximum load
Response time	10mS (typical)
Contact protection	External precautions required (see Increasing Contact Life Span in the product's Installation Guide)
Transistor	
Number of Outputs	2 pnp (source) – see Note 5
Output type	P-MOSFET (open drain)
Galvanic isolation	None
Output current (resistive load)	0.5A maximum per output 1A maximum total for common
Maximum frequency	50Hz (resistive load) 2Hz (inductive load)
PWM frequency	1.57Hz, 8 bit duty cycle resolution
Short circuit protection	Yes
Short circuit indication	Via software
On voltage drop	0.5VDC maximum
Power supply for outputs	
Operating voltage	20.4 to 28.8VDC
Nominal voltage	24VDC

Notes:

5. Outputs 05-06 can function as a PWM output, or as a normal digital output.

Analog Inputs

	JZ20-UA24 / JZ20-J-UA24		JZ20-UN20 / JZ20-J-UN20	
Number of inputs	4		3	
	AN2 and AN3	AN4 and AN5	AN1	AN2 and AN3
Input range	0-20mA, 4-20mA	0-10VDC	0-20mA, 4-20mA	0-10VDC
Input impedance	154Ω	20KΩ	154Ω	20KΩ
Maximum input rating	30mA	28.8V	30mA	28.8V

Galvanic isolation	None
Conversion method	Succesive approximation
Resolution (except 4-20mA)	10-bit (0 to 1023) or 12-bit (0-4095) - via software
Resolution (at 4-20mA)	204 to 1023 (820 units) or 819 to 4095 (3277 units) - via software
Conversion time	20mSec per channel, Synchronized to cycle time

Accuracy	± 3%
Status indication	Yes – if an analog input deviates above the permissible range, its value will be 1024/4096 (depends on the selected resolution).
Input cable length	Up to 30 meters, shielded twisted pair

RTD Inputs

Number of inputs	JZ20-UA24 / JZ20-J- UA24	JZ20-UN20 / JZ20-J-UN20
	2	1

RTD Type	PT100
Input range	-200 to 600°C/-328 to 1100°F. 1 to 320Ω. See Note 6
Galvanic isolation	None
Conversion method	Voltage to frequency
Resolution	0.1°C/0.1°F - See Note 7
Conversion time	300mS minimum per channel, depending on software filter type
Input impedance	>10MΩ
Auxillary current	150µA typical
Accuracy	±0.44%
Status indication	Yes. See Note 8

Notes:

6. The device can also measure resistance within the range of 1-320Ω at a resolution of 0.1Ω.
7. The input analog value represents the temperature value as follows:
   Analog Value: 260 Actual measured temperature: 26.0°C
8. The analog value can indicate faults as shown below:

Value	Possible Cause
32767	Sensor is not connected to input, or value exceeds permissible range
-32767	Sensor is short-circuited

Thermocouple Inputs

Number of inputs	JZ20- UA24/ JZ20-J-UA24	JZ20-UN20 / JZ20-J-UN20
	2	1

Input range	See Note 9
Isolation	None
Conversion method	Voltage to frequency
Resolution	0.1°C/ 0.1°F maximum. See Note 10
Conversion time	100mS minimum per channel, depending on software filter type
Input impedance	>10MΩ
Cold junction compensation	Local, automatic
Cold junction compensation error	±1.8°C / ±3.24°F maximum
Absolute maximum rating	±0.6VDC
Accuracy	±0.44%
Warm-up time	½ hour typically, ±1°C/±1.8°F repeatability
Status indication	Yes. See Note 11

Notes:

9. The device can also measure voltage within the range of -5 to 56mV, at a resolution of 0.01mV. The device can also measure raw value frequency at a resolution of 14-bits (16384). Input ranges are shown in the following table:

Type	Temp. Range	Type	Temp. Range
mV	-5 to 56mV	N	-200 to 1300˚C (-328 to 3214˚F)
B	200 to 1820˚C (300 to 3276˚F)	R	0 to 1768˚C (32 to 3214˚F)
E	-200 to 750˚C (-328 to 1382˚F)	S	0 to 1768˚C (32 to 3214˚F
J	-200 to 760˚C (-328 to 1400˚F)	T	-200 to 400˚C (-328 to 752˚F)
K	-200 to 1250˚C (-328 to 2282˚F)		

10. The input analog value represents the temperature value as follows:
    Analog Value: 260 Actual measured temperature: 26.0°C
11. The analog value can indicate faults as shown below:

Value	Possible Cause
32767	Sensor is not connected to input, or value exceeds the maximum value
-32767	Sensor value is under the minimum value

Analog Outputs	(JZ20-UA24 / JZ20- J-UA24 only)
Number of Outputs	2
Output range	±10V, 4-20mA
Resolution	12-bit sign(8192 units) for ±10V 12-bit (4096 units) for 4-20mA
Conversion time	Synchronized to scan time.
Load impedance	1kΩ minimum—voltage 500Ω maximum—current
Galvanic isolation	None
Accuracy	±0.3%

Display	
Type	STN LCD
Illumination backlight	LED, yellow-green, software controlled (LCD backlight; enables the display to be viewed in the dark)
Display size	2 lines, 16 characters long
Character size	5x8 matrix, 2.95x5.55mm

Keyboard	
Number of keys	16 keys, including 10 user-labeled keys
Key type	Metal dome, sealed membrane switch
Slides	Slides may be installed in the operating panel faceplate to custom-label the keys and logo picture. An extra logo slide is included. A complete set of blank slides is available by separate order.

Program	
Ladder code memory	48K (virtual)
Execution time	1.5 µSec for bit operations (typical)
Memory bits (coils)	256
Memory integers (registers), 16 bit	256
Timers	64
HMI displays	60 user-designed displays available

HMI variables	64 HMI variables are available to conditionally display text and data. List variables add up to 1.5K's worth of HMI capacity.
Communication	Via a built-in USB port or - Add-On module.See Note 12-15
GSM-support	SMS messages to/from 6 phone GSM numbers, up to 1K of user-designed messages. Supports Remote Access.
MODBUS	Supports MODBUS protocol, Master-Slave
Baud rate	According to add-on port module

USB

Port type	Mini-B
Galvanic isolation	No
Specification	USB 2.0 compliant; full speed
Baud rate range	300 to 115200 bps
Cable	USB 2.0 compliant; up to 3m

Notes:

12. The JZ20 built-in USB port may be used for programming. Add-on Modules are available by separate order for communication and cloning. Note that the USB port and an Add-on module cannot be physically connected at the same time.

13. Add-on module JZ-PRG, with 6-wires communication cable (supplied in PRG kit – see the JZ-PRG Installation Guide) can be used:
    - for programming
    - to connect a modem

14. Add-on module JZ-RS4 (RS232/485), with a standard 4-wire communication cable can be used:
    - for programming
    - to communicate with other devices (including modems/GSM)
    - for RS485 networking.

15. Add-on module MJ20-ET1 enables communication over 100 Mbit/s TCP/IP network:
    - Programming/data exchange with Unitronics software;
    - Data exchange via MODBUS TCP as Master or Slave.

Miscellaneous

Clock (RTC)	Real-time clock functions (date and time).

Environmental

Operating temperature	0° to 50°C (32° to 122°F)
Storage temperature	-20° to 60° C (-4° to 140°F)
Relative humidity (RH)	10% to 95% (non-condensing)
Mounting method	Panel mounted (IP65/NEMA4X) DIN-rail mounted (IP20/NEMA1)

Dimensions

Size	147.5X117X46.6mm (5.807" X 4.606" X 1.835"). See Note 16	
Weight	JZ20-UA24 JZ20-J-UA24	JZ20 -UN20 JZ20-J-UN20
	296 g (10.4 oz)	294 g (10.3 oz)

Notes:

16. For exact dimensions, refer to Page 2.

Mounting

Panel mounting	Insert into cut-out: 117 x 89mm (WxH) 4.606”x 3.504”
DIN-rail mounting	Snap unit onto the DIN rail

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