JZ10-11-T40V 16 Digital, 2 Analog/Digital, 2 Analog Inputs, 20 Transistor Outputs

Jazz™ Micro-OPLC™ Technical Specifications

Power supply

Input voltage 24VDC

Permissible range 20.4VDC to 28.8VDC with less than 10% ripple

Current Consumption See Note 1

Max. current consumption 170mA@24VDC

Typical power consumption 3W

Notes:

 If you do not use the LCD backlight, subtract 35mA from the maximum current consumption value.

Digital Inputs

Number of inputs 18 (two groups) – see Notes 2 & 3

Input type pnp (source) or npn (sink)

Galvanic isolation None
Nominal input voltage 24VDC

Input voltage

npn (sink)

pnp (source) 0-5VDC for Logic '0'

17-28.8VDC for Logic '1' 17-28.8VDC for Logic '0'

0-5VDC for Logic '1'

I0-I15 I16-I17

 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. Inputs I0-I15 are arranged in a single group. Via wiring, the entire group may be set to either pnp or npn.

3. I16 & I17 may be wired as either digital or analog inputs, as shown in the product's installation guide. I16 & I17 may be wired as npn, pnp, or 0-10V analog inputs. 1 input may be wired as pnp, while the other is wired as analog. If 1 input is wired as npn, the other may not be wired as analog.

4. I0 and I1 can each function as either a high-speed counter or as a normal digital input. When used as a normal digital input, normal input specifications apply.

Unitronics 1

Digital Outputs

Number of outputs 20 pnp (source) (in two groups) – See Note 5

Output type P-MOSFET (open drain)

Isolation None

Output current 0.5A maximum per output, total maximum for each group: 4A.

Maximum frequency 50Hz (resistive load)

0.5Hz (inductive load)

Short circuit protection Yes

Short circuit indication Yes, by software
On voltage drop 0.5VDC maximum

Power supply for outputs

Operating voltage 20.4 to 28.8VDC

Nominal voltage 24VDC

Notes:

 Outputs O0-O11 share a common power signal. Outputs O12-O19 share a common power signal.

All outputs share a common 0V signal.

Analog Inputs

Number of inputs 4, according to wiring as described above in Note 3

AN0 - AN3

 Input range
 0-10VDC

 Input impedance
 20KΩ

Maximum input rating 28.8V

Galvanic isolation None

Conversion method Succesive approximation

Resolution (except 4-20mA) 10-bit (0 to 1023)
Resolution (at 4-20mA) 204 to 1023 (820 units)

Conversion time 20mSec, Synchronized to cycle time

Precision \pm 3%

Status indication Yes – if an analog input deviates above the permissible range, its

value will be 1024.

Input cable length Up to 30 meters, shielded twisted pair

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
Key type

16 keys, including 10 user-labeled keys
Metal dome, sealed membrane switch

Slides Slides are installed under the operating panel faceplate. They label

the keys and provide a logo picture. The unit is supplied with a set of slides already installed. A blank set is available by separate order.

2 Unitronics

Program See Note 6
Ladder code memory 24K (virtual)

Execution time 46µSec for bit operations (typical)

Memory bits (coils) 256 Memory integers (registers), 256

16 bit

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.

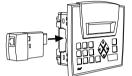
Notes:

 The controller does **not** offer a communication port. In order to download applications, the controller must be installed with an add-on programming port module. Such a module is included in the JZ-PRG programming kit, available by separate purchase.

Jazz Jack

Insertion point Enables optional add-on

modules. See Note 7



Notes:

7. Add-on modules are available by separate order.

Communication Via add-on port module. See Note 8

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

Notes:

 In order to enable communications, an add-on module containing a COM port must be plugged into the Jazz jack. The module included in the JZ-PRG programming kit may be used to communicate with external devices, if the device provides active RS232 voltage signals for purposes of power supply. For more details, see the JZ-PRG Installation Guide.

Miscellaneous

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

Battery back-up 10 years typical at 25 °C, battery back-up for RTC and system data,

including variable data

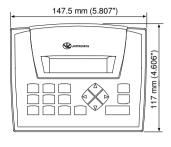
Environmental

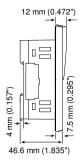
Operating temperature 0° to 50°C (32° to 122°F)
Storage temperature -20° to 60° C (-4° to 140°F)
Relative humidity (RH) 10% to 95% (non-condensing)
Panel mounted (IP65/NEMA4X)

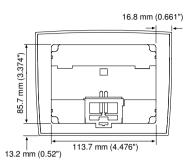
DIN-rail mounted (IP20/NEMA1)

Unitronics 3

Dimensions







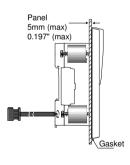
Weight

304g (10.72 oz)

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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