

# Jazz™ Micro-OPLC™

Operator Panel and Programmable Logic Controller



Jazz's unique combination of features, along with the remarkably low price, make it perfect for any application - from simple electric boards to complex production lines. Its High-speed inputs, combined with remote communication options make it the right choice for water and agriculture applications. Industrial lighting, automatic barriers/doors and air conditioning can also be easily and economically controlled by the Jazz.



Jazz compliments Unitronics' line of PLC/HMI devices as featured on the next page. The M90/M91 (PLCs with text display HMI) and the Vision (PLCs with Graphical or Touchpanel HMI) series offer advanced features such as PID with auto-tune, Data Tables, direct temperature/weight measurement inputs, and TCP/IP, GPRS or CDMA communications.

## Technical Specifications

| Article number              | JZ10-11-R10   | JZ10-11-T10                              | JZ10-11-R16   | JZ10-11-T17  |
|-----------------------------|---|--|---|--|
|                             | 6 Digital Inputs<br>4 Relay Outputs   | 6 Digital Inputs<br>4 Transistor Outputs | 6 Digital Inputs<br>2 Digital/Analog Inputs<br>2 Analog Inputs<br>6 Relay Outputs | 6 Digital Inputs<br>2 Digital/Analog Inputs<br>2 Analog Inputs<br>7 Transistor Outputs |
| I/Os                        |   |  |   |  |
| Digital inputs              | 6 prp/rpn (source/sink) 24VDC   | 6 prp/rpn (source/sink) 24VDC            | 8 <sup>1</sup> prp/rpn (source/sink) 24VDC  | 8 <sup>1</sup> prp/rpn (source/sink) 24VDC   |
| High-speed counter          | Two inputs can function as either high-speed counters (5 kHz, 16 bit resolution), or as normal digital inputs                             |  |   |  |
| Analog inputs               | None  | None                                     | Two <sup>1</sup> 10 bit inputs: 0-10V<br>Two 10 bit inputs: 0-20mA, 4-20mA        | Two <sup>1</sup> 10 bit inputs: 0-10V<br>Two 10 bit inputs: 0-20mA, 4-20mA             |
| Digital outputs             | 4 relay outputs   | 4 prp (source)                           | 6 relay outputs   | 7 prp (source)   |
| Program                     |   |  |   |  |
| Ladder code memory          | 24K (virtual)   |  |   |  |
| Bit/Coils                   | 256   |  |   |  |
| Integers/Registers (16 Bit) | 256   |  |   |  |
| Timers                      | 64  |  |   |  |
| Operator panel              |   |  |   |  |
| Display size & Type         | 2 lines x 16 characters, STN LCD, LED backlight   |  |   |  |
| HMI displays                | 60 user-designed displays available   |  |   |  |
| Variables                   | 64 HMI variables are available to conditionally display text and data. List variables add up to 1.5Ks worth of HMI capacity.              |  |   |  |
| Keypad                      | 16 sealed membrane keys, including 15 programmable keys (10 of which are user-labeled)  |  |   |  |
| Communication               | Via an Add-on port Module <sup>2</sup>  |  |   |  |
| Serial communications       | RS232/Programming Add-on port (optional, see Accessories)   |  |   |  |
| GSM support                 | SMS messages to/from many cell phone numbers, up to 1K of user-designed messages. Remote access-enabled.                                  |  |   |  |
| MODBUS                      | Supports MODBUS protocol, Master-Slave. Connectivity to any device that can provide 2 active RS232 control signals (e.g. PC, see note 2). |  |   |  |
| General                     |   |  |   |  |
| Power supply                | 24 VDC  |  |   |  |
| 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  |  |   |  |
| Environment                 | IP65/NEMA4X (from panel, when mounted)  |  |   |  |

<sup>1</sup> These models comprise a total of 10 inputs. 6 of these may be wired, in a group, as either digital rpn or prp. 2 inputs have added functionality. Both may be wired in a group as rpn, prp, or analog (bridge) inputs. Note that it is also possible to individually wire 1 input as a prp input, and the other as an analog input. The 2 remaining inputs are analog inputs.  
<sup>2</sup> In order to download applications and enable communications, install Jazz™ with an Add-on Module containing a COM port. The module included in the JZ-RPG programming kit may be used to communicate with external devices, if the device provides active RS232 voltage signals for purposes of power supply (devices such as PCs and most modems).

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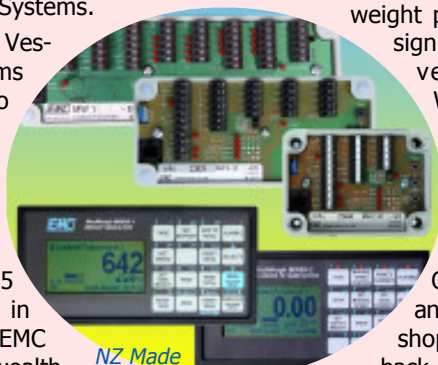
We also specialise in Vessel Weighing Systems (from small tanks to large silos) and offer a full range of electronic weighing processors, scales and loadcells, etc.

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### More information?

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