

EMC News

April 2006

Jazz™ Micro-OPLC™ Operator Panel and Programmable Logic Controller

See Jazz at
E M E X

Break the rules !

Replace that "smart relay" with a real Programmable Logic Controller that includes an Operator Panel and Keypad - for a similar low price

EMC are delighted to introduce the new Jazz by Unitronics - a PLC that includes on-board I/O plus a full-function Operator Panel with numeric keypad. It enables users to replace "smart relays" with a smarter, powerful device, while retaining the same low pricing.

PLC

Jazz offers advanced PLC programming capabilities such as 24K (virtual) of Ladder programming software, math, store/load, compare, clock, and vector operations functions.

Onboard I/Os include Digital and Analogue inputs, Relay or Transistor outputs and High-speed inputs.

It also supports interrupt, loops and immediate read/write to I/Os. These features ensure maximum flexibility for easy implementation of complex tasks.

HMI

Jazz provides a LCD illuminated text display (2-line x 16-character) and 60 user-designed HMI screens. The screens can be used to display machine operator instructions, conditional messages or variable data (time, date, bit status, timer and integer values).

The 16-key customisable alpha-numeric keypad is used for data entry via the Jazz operator panel, and for viewing application data via the Information mode.

In addition, the LCD display supports over 15 languages fonts.

Communications

Jazz features a variety of communication options.

SMS messaging capability provides real-time remote control via any GSM cell phone. Remote Access utilities enable downloading and debugging Jazz programs, operating the controller's panel, and viewing run-time parameters via remote PCs.

Further communications include MODBUS and OPC/DDE servers. *(continued next page)*



Prices from only
\$180.00 ea
(Pack of 5)

More information?

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Contact: Steve George



The Instrumentation & Weighing People

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 4 Relay Outputs	6 Digital Inputs 4 Transistor Outputs	6 Digital Inputs 2 Digital/Analog Inputs 2 Analog Inputs 6 Relay Outputs	6 Digital Inputs 2 Digital/Analog Inputs 2 Analog Inputs 7 Transistor Outputs
I/Os				
Digital inputs	6 prp/rpn (source/sink) 24VDC	6 prp/rpn (source/sink) 24VDC	8 ¹ prp/rpn (source/sink) 24VDC	8 ¹ 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 ² 10 bit inputs: 0-10V Two 10 bit inputs: 0-20mA, 4-20mA	Two ² 10 bit inputs: 0-10V 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 ²			
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)			

¹ 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.

² 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).

EMC Weighing Products

a complete package for all industrial applications

EMC is New Zealand's largest manufacturer of continuous weighing systems such as Belt Weighers, Weigh Feeders and Gravimetric Systems.

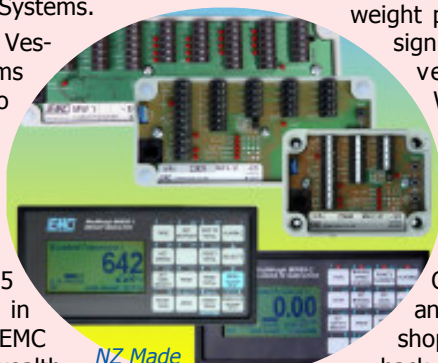
We also specialise in Vessel Weighing Systems (from small tanks to large silos) and offer a full range of electronic weighing processors, scales and loadcells, etc.

With more than 35 years of experience in Industrial Weighing, EMC has accumulated a wealth of knowledge and expertise

that is difficult to find elsewhere.

An essential component of any weighing system is a reliable and economic weight processor. EMC design and manufacture a versatile range of Weighing Indicators and Processors that are recognised internationally for their quality and ease of operation.

Our experienced staff and fully equipped workshops ensure full local back-up and service is always available.



NZ Made
EMC ModWeigh
Instruments



EMC Vessel Weighing installation
with DSM Loadcell Mounts

More information?

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