

Unitronics' Integrated PLC and HMIs

A complete series of OPLCs to suit all applications and budgets

The new **Jazz** series offers a cost-effective PLC solution for small machine builders and simple automation integrators.

However, for applications requiring more I/O or advanced features (e.g. PID with auto-tune, data tables, direct temperature/weight measurement inputs, and TCP/IP, GPRS or CDMA comms), check out the full range of Unitronics OPLCs.

Unique OPLC Concept

Unitronics' unique PLC+HMI concept provides a range of controllers that are easy to programme and operate as well as saving wiring, I/O points and programming time.

OPLC operating panels contain a display screen and keyboard. The screen is used to display graphics and messages, enabling the PLC to communicate with the operator, and the keyboard is used to enter information and to initiate functions.

Seamless Ethernet, MODBUS, SMS, other communication capabilities, and more, provide rich functionality that boosts your control power.

M90/M91 Series

M90/M91 OPLCs are exceptional control devices for entry-level applications. Available with up to 24 I/O (expandable by 64 I/O using expansion modules) they include a programmable LCD text message display:

- M90 - Single Line x 16 characters
- M91 - Two Line x 16 characters

A choice of Models with various Input / Output configurations are available to suit many applications.

M90/M91 OPLCs are GSM-enabled so that users can remotely monitor and control automated systems via a GSM cell phone.



The Unitronics family of OPLCs.
L/R: V120, V260, V230, M90/91, V280 and V290

Vision Series

Vision OPLC controllers offer a programmable Graphic Display and keyboard, combined with a full-function PLC.

Snap-in I/O modules are a feature of the Vision Series (except V120) and standard Expansion Modules enable up to 171 I/O. Optional Communication Modules provide additional Ethernet, RS232 / RS485 Ports.

Vision V120

A graphics display (128 x 64 pixels) and text up to 8 lines x 22 characters. The 96 x 96mm panel includes a 16-key keypad. Nine V120 models are available with up to 24 on-board I/O in various configurations.

Vision V230

Has the same display and text features as the V120, but incorporates a selectable Snap-in I/O module. The 184 x 155mm panel includes 24 user-labeled keys.

Vision V260

Features Snap-in I/O, a larger Graphics display (240 x 64 pixels) and text up to 8 lines x 40 characters. The V260 has 33 user-labeled keys in a 260 x 155mm panel.

Vision V280

The V280 has Snap-in I/O and a 320 x 240 pixels full-graphic LCD **'Touchscreen'** (4.7" active area) with a 27-key keypad.

Vision V290

Features Snap-in I/O and a 320 x 240 pixels full-graphic LCD **'Touchscreen'** (5.7" active area) with a virtual keyboard.

Vision Snap-in I/O Modules

Selectable Snap-in I/O are a feature on Vision Series V230, V260, V280 and V290.

They provide On-board I/O but can be replaced by Expansion Modules where it is appropriate to install remote I/O.

The Snap-in I/O modules include:

V200-18-E1B

Inputs: 16 digital, 3 analog
Outputs: 10 relay and 4 pnp/npn

V200-18-E2B

Inputs: 16 digital, 2 analog
Outputs: 10 relay, 4 pnp/npn, 2 analog

V200-18-E3B

Inputs: 18 digital, 4 analog
Outputs: 15 relay, 2 pnp/npn, 4 analog

V200-18-E4B

Inputs: 18 digital, 4 analog
Outputs: 15 pnp, 4 analog

V200-18-E5B

Inputs: 18 digital, 3 analog
Outputs: 15 pnp

Expansion Modules

Unitronics' diversity of applications is greatly extended with the ability to add up to 8 Expansion Modules:

EX-A1	Expansion Adaptor links PLC & up to 8 Modules
IO-DI8-TO8	6 Digital Inputs, 8 pnp Outputs
IO-DI8-RO4	8 Digital Inputs, 4 Relay Outputs
IO-DI16	16 Digital Inputs
IO-TO16	16 pnp Outputs
IO-RO8	8 Relay Outputs
IO-RO16	16 Relay Outputs
EX90-DI8-RO8	8 Digital Inputs, 8 Relay Outputs
IO-AI4-AO2	4 Analog Inputs, 2 Analog Outputs
IO-AO6X	6 Analog Outputs (isolated)
IO-PT4	4 PT100 Inputs
IO-ATC8	8 T/C, Analog Inputs



OPLC Advantages

- Program PLC/HMI in single environment
- Eliminates PLC-HMI communication
- Saves I/O points, reduces hardware
- Simplifies assigning functions to keys and data entry via the keyboard
- Requires less wiring and less space
- Package includes software, mounting hardware, comms cable & user guide

More information?

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M90 / M91: 403
Vision V120: 404
Vision V230/260/280/290: 405