

Transistor Outputs

Number of outputs	17 (in two groups). See Note 5.
Output type	
Outputs #0 and #1	<p>pnp: P-MOSFET (open drain)</p> <p>npn: N-MOSFET (open drain)</p> <p>Each can be individually set as pnp (source) or npn (sink) via wiring and jumper settings</p>
Outputs #2 to #16	pnp: P-MOSFET (open drain)
Galvanic isolation	
Transistor outputs to bus	Yes
Transistor outputs to transistor outputs	No
Group to group	No
Output current	<p>pnp: 0.5A maximum per output, total maximum current for each group: 3A.</p> <p>npn: 50mA maximum per output</p>
Maximum frequency	<p><u>Resistive load</u></p> <p>20Hz</p> <p><u>Inductive load</u></p> <p>0.5Hz</p>
High-speed output maximum frequency (resistive load). See Note 6	<p>pnp: 2kHz</p> <p>npn: 50kHz</p>
ON voltage drop	<p>pnp: 0.5VDC maximum</p> <p>npn: 0.4VDC maximum</p>
Short circuit protection	Yes (pnp only)
pnp (source) power supply	See Digital Output's Power Supply above
npn (sink) power supply operating voltage	<p>3.5V to 28.8VDC,</p> <p>unrelated to the voltage of either the I/O module or the controller</p>

Notes:

- Outputs #0, 1, 2, 3, 4, 5, 6, 7 and 8 share a common power signal. Outputs #8,9,10,11,12,13,14,15 and 16 share a common power signal. All outputs share a common 0V signal.
- Output #0 and 1 may be used as high-speed outputs.

Analog Inputs

Number of inputs	3 (single-ended)
Type of input	Set via appropriate wiring and jumper settings.
Galvanic isolation	None
Input range	0-10V, 0-20mA , 4-20mA
Conversion method	Successive approximation
Resolution at 0-10V, 0-20mA	10-bit (1024 units)
Resolution at 4-20mA	204 to 1023 (820 units)
Conversion time	Synchronized to cycle time
Input impedance	>100k Ω —voltage 500 Ω —current
Absolute maximum rating	\pm 15V—voltage \pm 30mA—current
Full-scale error	\pm 2 LSB (0.2%)
Linearity error	\pm 2 LSB (0.2%)

Environmental

	IP20 / NEMA1
Operating temperature	0° to 45°C (32° to 113°F)
Storage temperature	-20° to 60°C (-4° to 140°F)
Relative Humidity (RH)	5% to 90% (non-condensing)
Dimensions (WxHxD)	138x23x123mm (5.43x0.9x4.84")
Weight	186.3g (6.57 oz)

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Unitronics' OPLC controllers combine full-function PLCs and HMI operating panels into single, compact units. These HMI + PLC devices are programmed in a single, user-friendly environment. Our clients save I/O points, wiring, space, and programming time; elements that translate directly into cost-efficiency.

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