UniStream™ Uni-I/O™ Modules

Technical Specifications
UID-0808R, UID-0016R, UID-0808T,
UID-0016T, UID-1600

This guide provides specifications for Unitronics' Uni-I/O™ Modules.

Uni-I/O modules are compatible with UniStream $^{\text{TM}}$ Programmable Logic Controllers. They may be either snapped onto the back of a UniStream $^{\text{TM}}$ HMI Panel next to a CPU-for-Panel to create an all-in-one HMI + PLC controller, or installed on a standard DIN Rail using a Local Expansion Kit.

Installation Guides are available in the Unitronics Technical Library at www.unitronics.com.

This specification sheet refers to the models in the following table:

Part no.	UID-0808R	UID-0016R	UID-0808T	UID-0016T	UID-1600
Inputs	8	-	8	-	16
Туре	Sink (pnp) or Source (npn), 24VDC	-	Sink (pnp) or Source (npn), 24VDC		Sink (pnp) or Source (npn), 24VDC
Outputs	8	16	8	16	
Туре	Relay, 24VDC (Relay, 24VDC (power supply)		Transistor, Source (pnp), 24VDC	
Isolation	All inputs and o	All inputs and outputs are isolated			

Inputs	UID-1600	UID-0808R, UID-0808T				
Number of inputs	16 8					
Туре	Sink or Source					
Isolation groups	Four groups of 4 inputs each	Two groups of 4 inputs each				
Isolation voltage						
Group to bus	500VAC for 1 minute					
Group to group	500VAC for 1 minute					
Input to input within group	None					
Nominal voltage	24VDC @ 6mA					
Input voltage						
Sink/Source	On state: 15-30VDC, 4mA minimum					
	Off state: 0-5VDC, 1mA maximum					
Nominal impedance	4kΩ					
Filter	Settable between 1 to 32 ms (individually per group)					

Outputs	UID-0808R	UID-0016R	UID-0808T	UID-0016T		
Number of outputs	8	16	8	16		
Output type	Relay, SPST-NO (Form A)		Transistor, Source	e		
Isolation groups	Two groups of 4 outputs each 4 outputs each		One group of 8 outputs	One group of 16 outputs		
Isolation voltage						
Group to bus	1,500VAC for 1 minu	te	500VAC for 1 minute			
Group to group	1,500VAC for 1 minu	te	-	-		
Output to output within group	None		None			
Output power supply to bus	None		500VAC for 1 minute			
Output power supply to output	1,500VAC for 1 minute		None	None		
Current	2A maximum per output (Resistive load)		UID-0016T: total cum	0.5A maximum per output. UID-0016T: total cumulative output current for O4-O7 and O12-O15 cannot exceed 2A.		
Voltage	250VAC / 30VDC maximum		See Outputs Power Supply specfication			
Minimum load	1mA, 5VDC		-			
ON state voltage drop	-		0.5V maximum			
OFF state leakage current	-		10μA maximum			
Switching times	10ms maximum		Turn-on/off: $80\mu s$ max. (Load resistance < $4k\Omega$)			
Short-circuit protection	None		Yes			
Life expectancy (1)	100k operations at maximum load		-			

Outputs Power Supply	UID-0808R	UID-0016R	UID-0808T	UID-0016T	
Nominal operating voltage	24VDC				
Operating voltage	20.4 - 28.8VDC				
Maximum current consumption	40mA@24VDC	80mA@24VDC	30mA@24VDC ⁽²⁾	60mA@24VDC ⁽²⁾	

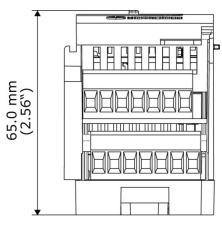
IO/COM Bus	UID-0808R	UID-0016R	UID-0808T	UID-0016T	UID-1600
Bus maximum current consumption	100mA	90mA	110mA	120mA	100mA

LED Indications					
Input LEDs	Green	Input state			
Output LEDs	Green	Output state			
Status LED	A triple color LED. Indications are as follows:				
	Color	LED State	Status		
	Green	On	Operating normally		
		Slow blink	Boot		
		Rapid blink	OS initialization		
	Green/Red	Slow blink	Configuration mismatch		
	Red	On	Output short-circuit (models with transistor outputs)		
		Slow blink	No IO exchange		
		Rapid blink	Communication error		
	Orange	Rapid blink	OS Upgrade		

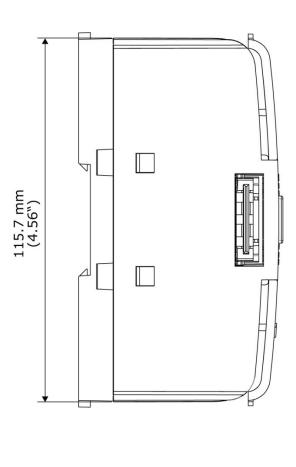
Environmental				
Protection	IP20, NEMA1			
Operating temperature	-20°C to 55°C (-4°F to 131°F)			
Storage temperature	-30°C to 70°C (-22°F to 158°F)			
Relative Humidity (RH)	5% to 95% (non-condensing)			
Operating Altitude	2,000m (6,562 ft)			
Shock	IEC 60068-2-27, 15G, 11ms duration			
Vibration	IEC 60068-2-6, 5Hz to 8.4Hz, 3.5mm constant amplitude, 8.4Hz to 150Hz, 1G acceleration.			

2/15 UniStream™

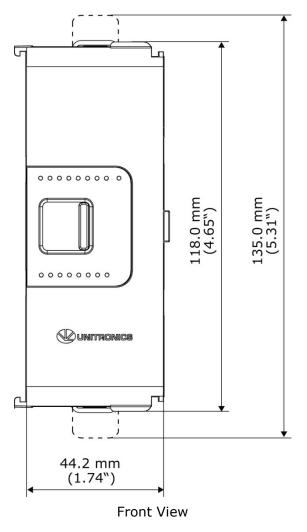
Dimensions	UID-0808R	UID-0016R	UID-0808T	UID-0016T	UID-1600
Weight	0.15 Kg	0.17 Kg	0.13 Kg	0.13 Kg	0.13 Kg
	(0.331 lb)	(0.374 lb)	(0.287 lb)	(0.287 lb)	(0.287 lb)
Size	Identical for all models, as shown in the images below				



Top View



Side View



Unitronics 4

Notes

- 1. Life expectancy of the relay contacts depends on the application that they are used in. The product's installation guide provides procedures for using the contacts with long cables or with inductive loads.
- 2. Current consumption does not include load current.

The information in this document reflects products at the date of printing. Unitronics reserves the right, subject to all applicable laws, at any time, at its sole discretion, and without notice, to discontinue or change the features, designs, materials and other specifications of its products, and to either permanently or temporarily withdraw any of the forgoing from the market.

All information in this document is provided "as is" without warranty of any kind, either expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. Unitronics assumes no responsibility for errors or omissions in the information presented in this document. In no event shall Unitronics be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever arising out of or in connection with the use or performance of this information.

The tradenames, trademarks, logos and service marks presented in this document, including their design, are the property of Unitronics (1989) (R"G) Ltd. or other third parties and you are not permitted to use them without the prior written consent of Unitronics or such third party as may own them.

DOC27004-A7 02/15