

Infinity

∞ Eclipse UI-32-12, UI-16-12 Modular I/O Board

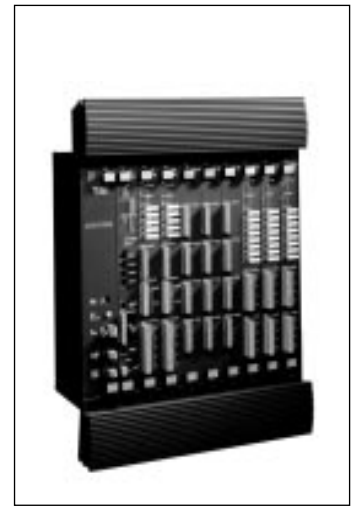
The UI-32-12 and the UI-16-12 are high density input modules for the ∞ Eclipse family of controllers. Both modules are the perfect choice for any mix of temperature, pressure, flow, status points, and similar inputs in a control system, with true 12 bit A/D conversion. The UI-32-12 provides 32 universal inputs, software configurable as either voltage, thermistor, digital, and counter point types. Each point can also be configured as a supervised input for security monitoring, providing separate indication of alarm and trouble conditions. The UI-16-12 provides 16 universal inputs with identical point type selection.

Similar to all ∞ Eclipse I/O modules, the UI-32-12 and the UI-16-12 modules are designed to plug into the compact 4-I/O-slot or 8-I/O-slot ∞ Eclipse rack. The CX 9400 CPU board monitors and controls these I/O modules through the ∞ Eclipse high-speed parallel backplane interface.

The UI-32-12 and the UI-16-12 are equally well-suited for high density security applications, accepting information from motion sensors, glass break sensors, door contacts, and other security intrusion sensors.

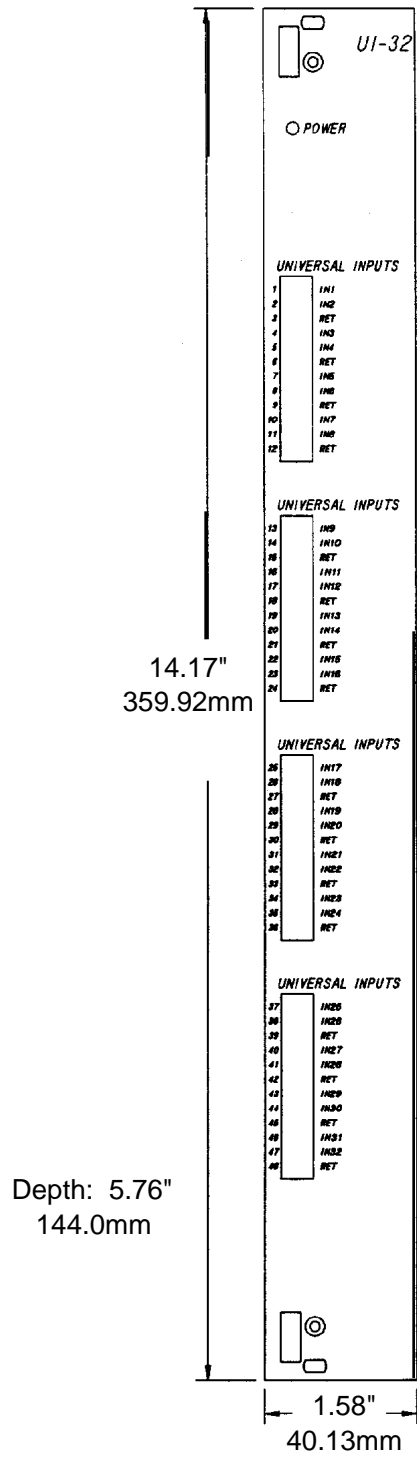
Pull-up resistor DIP switches for each input on the UI-32-12 and UI-16-12 allow direct sensing of analog signals on an individual basis.

All input connectors are removable for easy field access and maintenance.




FEATURES

- ∞ Eclipse Rack-Mounted High Density Input Module
- Up to 32 High-Accuracy Universal Inputs for Flexible Control Configurations:
 - Voltage
 - Thermistor
 - Digital
 - Counter
 - Supervised
- Twelve-Bit Analog Resolution Provides Accurate Input Sensing for Building, Security, and Process Control
- DIP Switches for Each Input Allow Enabling of Pull-up Resistors Individually
- Removable Input Connectors Simplify Installation



SPECIFICATIONS

ELECTRICAL

Power Consumption:	3 watts max., provided through  Eclipse backplane. System's total power consumption not to exceed 100 watts.
Overload Protection:	2 amp pico fuse

MECHANICAL

Operating Environment:	32 to 120°F, (0 to 49°C), 10 to 95% (non-condensing)
Size:	1.58" W x 14.17" H x 5.67" D (40.1 W x 359.9 H x 144.0 D)mm
Weight:	11oz. (.312kg)

BATTERY

Battery Backup:	Through  Eclipse backplane
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INPUTS

Number of Inputs:	UI-32 has 32 inputs. UI-16 has 16 inputs
Input Types:	Voltage, Thermistor, Digital, Counter, and Supervised
Input Protection:	30 VAC RMS or ± 30 VDC to any single input (40V TVS on each input)
Input Impedance:	$>10M\Omega$ for Voltage Inputs $30.1K\Omega$ for Thermistor, Digital, Counter, and Supervised inputs
Voltage:	
Range:	0 to 10V
Resolution:	2.5 mV
Accuracy:	± 5 mV max. ($\pm 0.05\%$ Full Scale Range)
Drift:	± 10 ppm/ $^{\circ}$ C max. ($\pm 0.001\%$ Full Scale Range/ $^{\circ}$ C)
Thermistor:	
Range:	-30 to 230°F (-34 to 110°C)
Resolution:	-10 to 100°F 0.09°F typical (-23 to 38°C) (0.05°C typical)

SPECIFICATIONS (Cont'd)

INPUTS (Continued)

Accuracy:	70°F (21°C) -10 to 100°F (38 to 66°C)	±0.20°F max. (±0.11°C) ±0.26°F max. (±0.26°C)
Drift:	-10 to 150°F. (-23 to 66°C)	±20 ppm/°C max.

Digital & Counter:

Input Type:	Contact Closure
Frequency:	5 Hz max.
Pulse Width:	100 mS min.
Current:	0.33 mA

Supervised:

Input Type:	Single or Double Resistor Supervision, Parallel or Series Circuit
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CONNECTIONS

Power:	Powered through Δ Eclipse backplane.
Inputs:	Removable two-piece terminal block Eight inputs per 12-position connector

MEMORY

EEPROM:	4K Bit
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MODELS

UI-32-12	32 Universal Inputs, 12-bit Analog Resolution
UI-16-12	16 Universal Inputs, 12-bit Analog Resolution

AGENCY LISTINGS

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Consult Δ *Eclipse System Hardware Installation Guide* for exact installation instructions and specifications.

#DS-UI-32-12-3.95