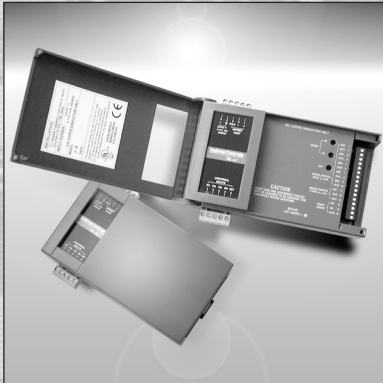


INFINET II



- **Compact Terminal Controller Provides Low-cost DDC Control of Package Units, Heat Pumps, Unit Ventilators**

- **Compatible with Both *Continuum* and *Infinity* Systems**

- **Universal Inputs with Form A, Form K, and Analog Outputs for Flexible Control Options**

- **Non-Volatile Flash Memory Provides Utmost Reliability — Stores Both Application Program and Operating System**

- **Flash Memory Allows Easy On-Line Software Updates**

- **Modular, Sleek Design Simplifies Installation in Small Areas**

- **View and Modify Information with Optional Andover *Smart Sensor* Display**

- **Local On-Board Service Port**

i2867 Terminal Controller

The Infinet II (i2) 867 is a compact terminal controller that provides low-cost DDC control of package units, heat pumps, unit ventilators, and other terminal unit applications. Its versatile mix of I/O — Universal inputs, Triac outputs, plus an interface to Andover Controls' *Smart Sensor* room temperature sensor with programmable keypad — allows for flexible control solutions. The i2867 also features two analog outputs to control reheat valves, dampers, lighting ballasts, etc. And because the i2867 is enclosed in a sleek, modular casing, it can be mounted in a small area — perfect for retrofit applications.

Similar to all i2 controllers, the i2867 features Flash memory, increased user memory, and a fast (32-bit) processor for faster scan times, with plenty of additional memory available for data logging of your critical data.

The i2867 communicates with the entire Andover Controls Infinet™ RS-485 field bus; i.e., both Infinet and Infinet II controllers, and is compatible with both the *Continuum* CyberStation and *Infinity* SX 8000 front-ends. Up to 254 Infinet devices can be networked to any Andover network controller.

INCREASED RELIABILITY WITH FLASH MEMORY

The i2867's non-volatile Flash memory stores your operating system *and* application programs, so that in the event of a power loss, your application will be restored when power is returned. In addition, the Flash memory allows for easy upgrades of your operating system via software downloads, eliminating the need to swap out proms. The i2867 includes an on-board battery to safeguard your runtime data — protecting all point data and log data from being lost if power is removed.

INPUTS

The input configuration on the i2867 consists of four full range Universal inputs that accept voltage (0-5VDC), digital (on/off), counter signals (up to 4Hz), or temperature signals. The i2867 also offers a fifth input to support the Andover *Smart Sensor*, or any standard room temperature sensor.

SPECIFICATIONS

i2867 Terminal Controller

ELECTRICAL

Power:	24 VAC, +10% -15%, 50/60 Hz
Power Consumption:	4 VA
Overload Protection:	Fused with 2 amp fuse. MOV protected.
Software Real-Time Clock:	Synchronized through Infinet by network controller

MECHANICAL

Operating Environment:	32°–120°F (0–49°C), 10–95% RH (non-condensing)
Size:	6.20"H x 3.50"W x 2.50"D (157H x 89W x 64) mm
Weight:	0.64 lbs. (0.29 kg)
Enclosure Type:	UL Open class, IP 10. Flammability rating of UL94-5V
Mounting:	Din-rail or panel mount

BATTERY

Battery Backup:	Replaceable, non-rechargeable, lithium battery. Provides 5 years typical accumulated power failure backup of RAM memory.
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COMMUNICATIONS

Communications Interface:	Through Infinet RS-485 field bus to network controller
Communications Speed:	1200 to 19.2K baud
Bus Length:	4,000 ft. (1,220m) standard for Infinet, i2 Infilink module allows extension to longer distances and is required after every group of 32 units on the network.
Bus Media:	Infinet: twisted, shielded pair, low capacitance cable
Comm. Error Checking:	International Standard CRC 16
Compatibility:	<i>Continuum</i> CyberStation and <i>Infinity</i> SX 8000 systems

INPUTS/OUTPUTS

Inputs:	4 Universal inputs: Voltage (0-5.115 VDC); Temperature -30°F to 230°F (-34°C to 110°C), Digital (on/off), Counter (up to 4Hz at 50% duty cycle, 125 ms min. pulse width). Current input (0 - 20 mA) using external 250 ohm resistor 1 <i>Smart Sensor</i> Temperature Input (32°F to 105°F) (0°C to 41°C)
Input Voltage Range:	0-5.115 volts DC
Input Impedance:	10K ohm to 5.120V or 5M ohm with pull-up resistor disabled
Input Protection:	24 VAC or 24 VDC temporarily on any single channel, ±1000V transients (Tested according to EN61000-4-4)
Input Resolution:	5.0 mV
Input Accuracy:	±15mV (±0.56°C from -23°C to +66°C or ±1°F from -10°F to +150°F)

INPUTS/OUTPUTS (CONTINUED)

Outputs:	5 single pole single throw (SPST) Form A Triacs (any two consecutive outputs can be configured as one Tri-state Form K) 2 analog outputs (0-10V)
Output Rating:	
For SPST:	Maximum 0.5A, 24VAC, ±2000V transients (Tested according to EN61000-4-4) Minimum: 20 mA AC Each Triac is ground referenced, DC loads not permitted.
For 0-10V:	5 mA maximum, 2K ohm minimum impedance, ±1000V transients (Tested according to EN61000-4-4)
Output Accuracy:	
For SPST:	0.1 sec. for pulse width modulation
For 0-10V:	50 mV resolution/100mV accuracy

CONNECTIONS

Power/Communications:	5-position removeable screw terminal connector
Inputs:	5-position removeable screw terminal connector
Outputs/Smart Sensor:	16-position removeable screw terminal connector
Service Port:	4-position shrouded connector

USER LEDS/SWITCHES

Status Indicator LEDS:	
CPU	CPU Active
TD	Transmit Data
RD	Receive Data
Switches:	
RESET	
	Input Pull-up Resistor Switch (per input)

GENERAL

Memory:	128K SRAM, 1MB FLASH
Processor:	Motorola 32-bit Coldfire

AGENCY LISTINGS

UL/CUL 916, FCC CFR 47 Part 15, ICES-003, EN55022, AS/NZS 3548, and VCCI Class A, CE



OPTIONS

UL864, Smoke Control System Equipment, UUKL (i2867-S)

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Andover Controls

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