DATA SHEET

UniBus Analogue Input Expander

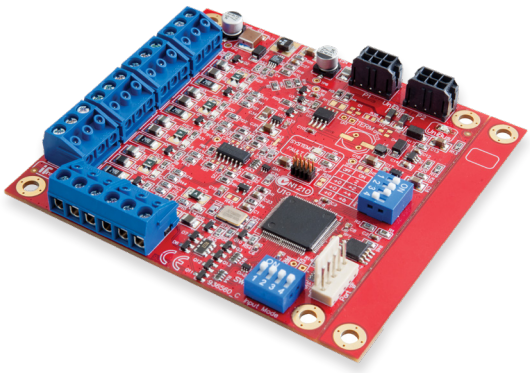
The UniBus 4 Way Analogue Input Expander provides the capability to monitor, report and action on analogue values within an Integriti system. The device can be programmed to operate an auxiliary when an analogue level from one or more of its independent analogue inputs exceeds or goes below a pre-programmed trigger point. Analogue levels can be monitored and controlled in scaled units through the Integriti software or at any EliteX Terminal.

The Analogue input device is hosted via a UniBus connection to the Integriti Security Controller (ISC) or the 8 Zone LAN Expander. The device is designed for installation within the same tamper-protected enclosure as its UniBus host module.

Each of the 4 inputs can be configured to operate in any one of 3 modes

1) Serial Mode - For use with the Inner Range Serial Temperature Sensor (Part. 995089)
2) Voltage Monitor Mode - For monitoring voltages from 0 to 10V DC
3) Current Loop Monitor Mode - For monitoring current from 4 to 20mA DC

The Analogue Module allows the programmer or installer a variety of selectable mode settings and levels with which to configure the system to the particular application. The trigger point, output auxiliary, tamper levels and hysteresis values may be individually selected for each input.



Host Module Compatibility

The UniBus 4 Way Analogue Input Expander is compatible with the following UniBus Host Modules:

- Integriti ISC Controller (Part. 996001 series) - Connect up to 4
- 8 Zone RS-485 LAN Expander (Part. 996005PCB&K) - Connect up to 6

UniBus Device Compatibility Guide		UniBus Host Module			
		ISC	IAC	8 Zone Expander	ILAM
UniBus Device	8 Zone Expander	2	0	3	0
	8 Relay Expander*	4	2	4	2
	2 Door / 2 Reader Expander	0	3	0	3
	16 Floor Lift Interface	6	6	6	6
	RS-232/RS-485 UART	4	4	0	0
	Analogue Expander	4	0	6	0

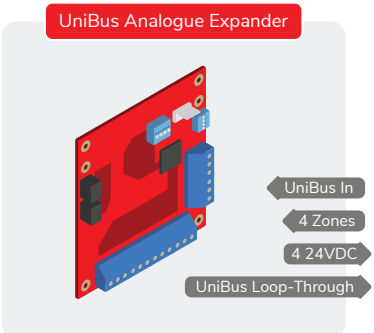
*Relays can be used for general purpose outputs when mapped to Aux 1~16 on IAC, and cannot be mapped to Aux 17~32

Features

- 4 Universal Analogue Zone Inputs
- 3 mode options per input - Serial, Voltage or Current loop
- Compatible with Inner Range Serial Temperature Sensor (Part. 995089 - See page 72)
- Programmable hysteresis setting
- DIP switch addressable first zone 1, 5, 9, 13, 17, 21, 25, 29
- 24V DC output for current loop supply
- UniBus loop-through connectors
- 2 LED status/fault indicators
- Resettable surge protected inputs
- Over-The-Wire firmware upgradeable
- Integriti "C" size footprint 94 x 94mm
- Can be installed above other "C" size PCB's**
- A Snap off strip is included to allow installation above Integriti "B" size PCB's**

** 35mm standoff kit required - Part Number 999009

Connectivity

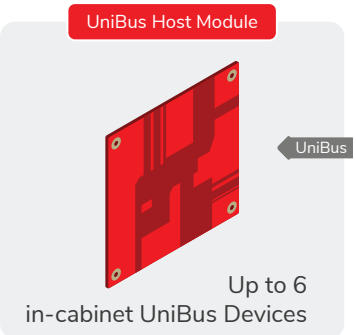


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UniBus Analogue Input Expander

UniBus Installation



UniBus Devices are designed for installation within the same enclosure as the UniBus host module. A UniBus host can interface a maximum of six UniBus devices in any combination, provided they are all within the intended functionality of the host module

Specifications

Physical

PCB Size Code:	Integriti “C” size
PCB Size:	94(L) x 94(W) (mm)
PCB size including snap off strip:	105(L) x 94(W) (mm)
Height:	15(D)(mm) (28mm with UniBus cable connected)
Shipping Weight:	100grams
Installation Environment:	0°C - 70°C @15% - 90% Relative humidity (non-condensing)

Electrical

Power Supply Input:	11V to 14V DC via host module
Static Current Consumption: 20mA per input)	50mA idle ~ 230mA (Max with all inputs in loop mode supplying
Current Loop Outputs:	24V DC (Individually PTC protected)
Serial Sensor Supply Voltage:	5V DC for connection to +DAL on 995089 Serial Temperature Sensor

Connections

Analogue Inputs:	4
Current Loop Outputs	4
Serial Sense Input	4
Serial Sensor 5V Supply	1
UniBus Port:	1
UniBus Loop-through Port:	1
Connection to Host Module:	Via 270mm UniBus patch lead (supplied)

Power Considerations

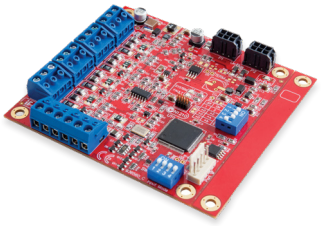
The UniBus host module supplies current and static device current to all connected UniBus devices.
Total current consumption is, therefore the sum of all:

- Static Current of all connected UniBus devices
- Static Current of host module
- Host module battery charging current
- Ancillary devices connected to all DET+, CL+, 1W+ connections
- Ancillary devices connected to host module’s RS-485 LAN+

Compliance

Electrical	
Environmental	RoHS

Ordering Options



996560PCB&K
UniBus Analogue Input Expander PCB &
Accessories (Includes 270mm UniBus patch cable)



Spare UniBus patch cables
996791SS - UniBus Patch Cable 150mm
996791S - UniBus Patch Cable 220mm
996791L - UniBus Patch Cable 270mm
996791LL - UniBus Patch Cable 475mm
996791XL - UniBus Patch Cable 675mm



Serial Temperature Sensor

The sensor records the temperature and converts it to an 8-bit digital value.

The digital data is then sent to the Analogue Module to be processed.

Each Serial Temperature Sensor is supplied with a wall mounting kit and requires no further calibration.

995089
Serial Temperature Sensor

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