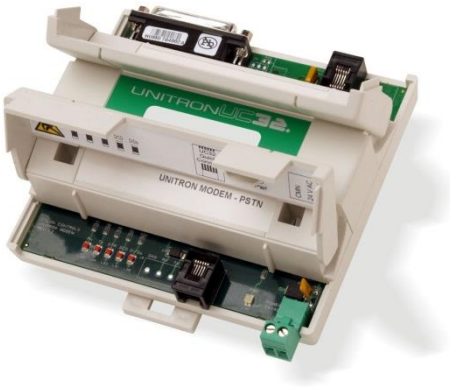
Unitron PSTN Modem

model options:	Unitron PSTN Modem - UC32.NET	Unitron PSTN Modem - UC32
	Unitron PSTN Modem - UCC4	Unitron PSTN Modem - PG-R

The **Unitron PSTN Modem** is low-cost PSTN modem, designed for use with the complete range of Cylon Field and Communications controllers. Powered from 24VAC and housed in the familiar Cylon UCU housing this unit offers the user an easy method of remotely accessing Cylon sites.



Serial PSTN modem solution

RS-232 Serial interface
V.92/56K bps data rate
Baud Rates from 2400 to 19K2
Telecom approved in more than 50 countries
"Plug and Play" operation with all UC32 controllers

Standard mounting

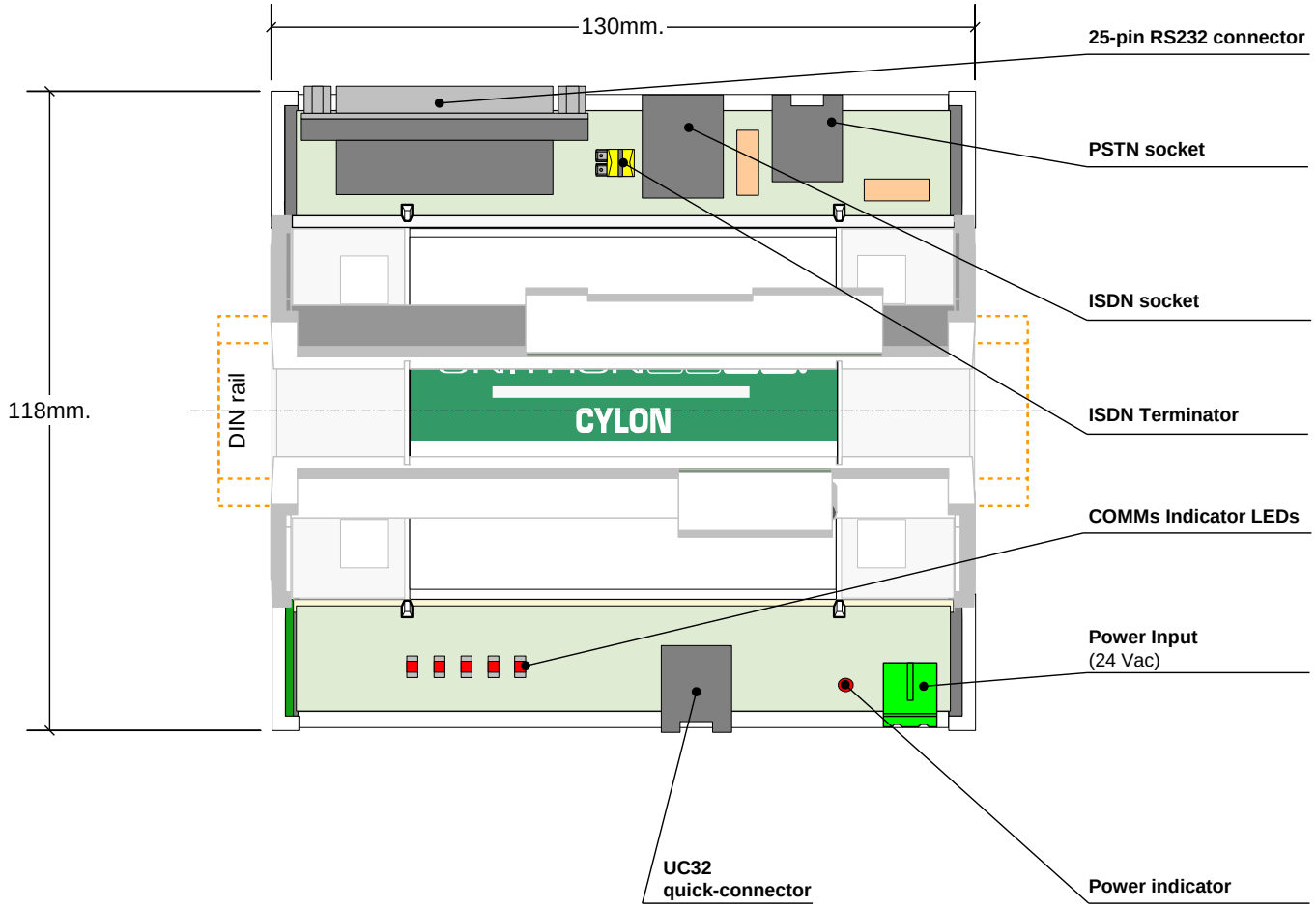
UCU housing
DIN Rail Mountable
Powered by 24VAC
Quick Connect interface for UC32 Field Controllers
Low power consumption

Simple configuration

Easily configured using CCDial software
Designed to interface with all Cylon controllers

Cylon CONTROLS

DATASHEET



ISDN Terminator

OFF
(ISDN line not terminated at this controller)

ON
(ISDN line terminated at this controller)

COMMs Indicator LEDs

	Rx	Tx	DTR	DCD	DiDo
LED on	Recieving	Transmitting	Ready to receive	Connection attempt detected	Dial-in / Dial-out indicator

UK Patent GB 2 400 991
Irish Patent 84413

Specifications:

MECHANICAL

Size (excluding terminal plugs)	145 x 130 x 45 mm (5.7 x 5.12 x 1.78")
Enclosure	Injection moulded ABS
Mounting	DIN rail

ENVIRONMENT

***Note**: This equipment is intended for field installation within another enclosure.*

Ambient Temperature	0° to +70°C (32°-158°F) ambient.
Ambient Humidity	0% to 90% RH (non-condensing)

WIRING

***Note**: Use Copper or Copper Clad Aluminium conductors only.*

Conductor Area	Max: AWG 12 (3.09 mm^2) Min: AWG 22 (0.355 mm^2)

ELECTRICAL

Supply Requirements	24 V AC +/- 10% 50/60 Hz or 24VDC
Transformer Rating	up to 10 VA
Fuse Rating	0.9 A 30 V Resetable fuse
Power Consumption	Typical: 115ma (0.38W @ 24VAC) Maximum: 116 ma (0.41W @24VAC)

COMMUNICATIONS

Local RS232 TTL port	@ 19200, 9600, 7600, 4800 and 2400 Baud Rates Max cable length 4m
PSTN Data Rate	V92/56K

Cabling

DB-25 to UC32.netK Communications Controller cable *(Unitron PSTN Modem - UC32.NET only)*
DB-25 to UC32 Field Controller cable *(Unitron PSTN Modem - UC32 only)*
DB-25 to UCC4 Communications Controller cable *(Unitron PSTN Modem - UCC4 only)*
DB-25 to UCPG-R Field Controller cable *(Unitron PSTN Modem - PG-R only)*

INTERFACE

Software	CCDial Unitron Command Centre Unitron Engineering Centre

***Note**: In order to use the Unitron PSTN modem with a UnitronUC32.netK Communications Controller, the Comms controller must have the correct modem strings set within it.*
These Strings are changed back to their default settings if the controller is reset.
If the Firmware version in the UC32.netK is 1.01.46 or later, then the correct modem strings will be set up automatically if the modem is connected to the UC32.netk when the UC32.netK is powered up. For this reason, you must ensure the modem is connected if you want to reset the UC32.netK.
If the Firmware version is earlier than 1.01.46, then the following strings must be set to the UC32.netK from CCDial:

ModemType	*Unitron PSTN Modem*
InitialisationString	`AT&F0E0S0=1&Y0+IPR=0@AT&W0@`
DialOutInitialisationString	*ATDT*
ConnectString	*CONNECT*
HangupString	`~~~+++~~~ATH@`

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APPROVALS

Safety Certifications	UL 60950 cUL60950 EN 60950 ACA TS 001/ AS 3260 CCC
EMC Approvals	FCC Part 15 (Class B) Canada (Class B) EN 55022 (Class B) EN 55024
Modem Approvals	The modem contains an OEM module which is approved for use in over 50 countries worldwide. For the current list of approved countries please contact Cylon Technical Support.

ABOUT UNITRONUC32

Unitron PSTN Modem is part of the **UnitronUC32** range of products, which offers the following benefits:

Unique Flexibility with UniPut™ I/O

The UnitronUC32 range uniquely presents UniPut I/O, a revolutionary answer to flexible point configuration, offering maximized utilisation of controller capacity along with flexibility in strategy changes. Built on a modern, web-based architecture, the UnitronUC32 range has a wide application scope with the flexibility of being stand-alone or network enabled. Easily customisable, the UnitronUC32 range has optional internal or external keypads for a powerful yet user-friendly interface, matched by extensive monitoring and logging capabilities.

The right integration at the right level

Cylon provides easy integration between disparate building automation components utilising BACnet. The implementation leverages the flexibility and high performance of the Cylon fieldbus, and yet exposes all controllers as BACnet devices. The value to owners and specifiers of the BACnet suite of standards is at the Management and Automation Layers. TCP/IP is now pervasive and integration at this level removes the dependency on physical networks which evolve over time. Importantly, the BACnet routing is part of the Cylon communications controller and no separate PC gateway is required. This provides a highly robust yet low cost solution.

Cost Effective, low entry point for building control.

The UnitronUC32 range offers reduced costs in terms of training, implementation, rollout and maintenance. Modular, extendible packages along with low installation costs mean a low entry point for building control. Advanced web based technology provides expanded facilities for maintenance personnel, while day to day access is offered via intuitive web pages. The future proof UnitronUC32 range provides forward & backward compatibility, meaning an effortless upgrade path for existing Unitron Systems.

Highly programmable and extendable through web enabled HVAC technology

The UnitronUC32 range offers an advanced, web based, 32-bit architecture, with advanced programmability through the UnitronUC32 Engineering Centre. Inbuilt diagnostics along with expanded data logging and strategy storage is further enhanced by UniPut I/O, offering up to 8 Universal inputs, up to 8 UniPut connections (AI/DI/AO/DO) and up to 8 UniPut I/O with relays.

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