

Cylon KNX Gateway

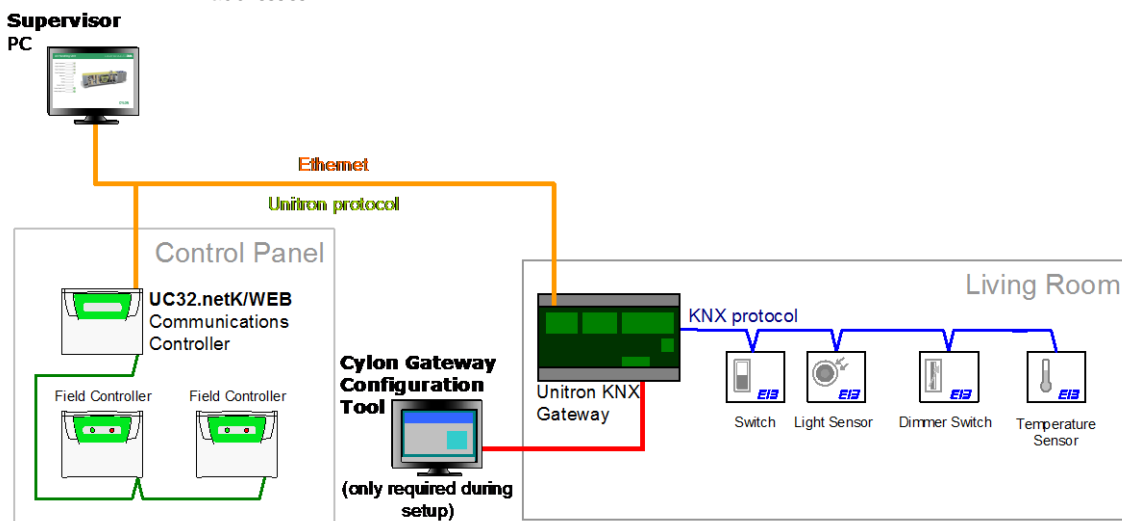
The Cylon KNX Gateway provides an interface between Unitron BMS networks and KNX/EIB networks, allowing Unitron to control KNX/EIB equipment and read KNX/EIB data.



Unitron - KNX integration Solution

The Cylon KNX Gateway enables communication between Unitron Sites and other KNX systems for the following types of data:

- DataLogs
- Alarms
- ReadOuts
- WriteOuts
- KNX (EIB) groups
- KNX (EIB) listening
- addresses



Standard mounting

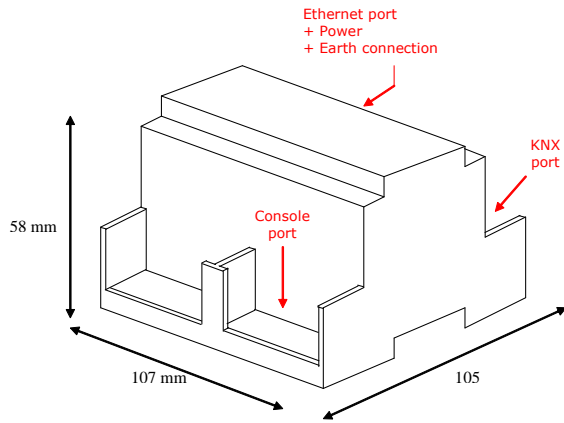
DIN Rail Mountable
Powered by 24VAC

Simple configuration

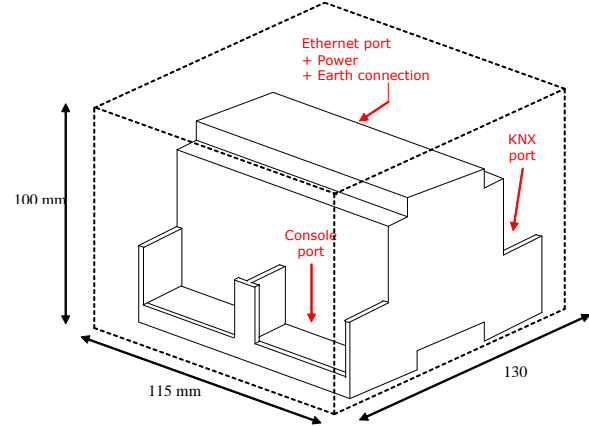
Easily configured using **Cylon Gateway Configuration Tool** software
Designed to interface directly with UC32.netK Communications Controllers.



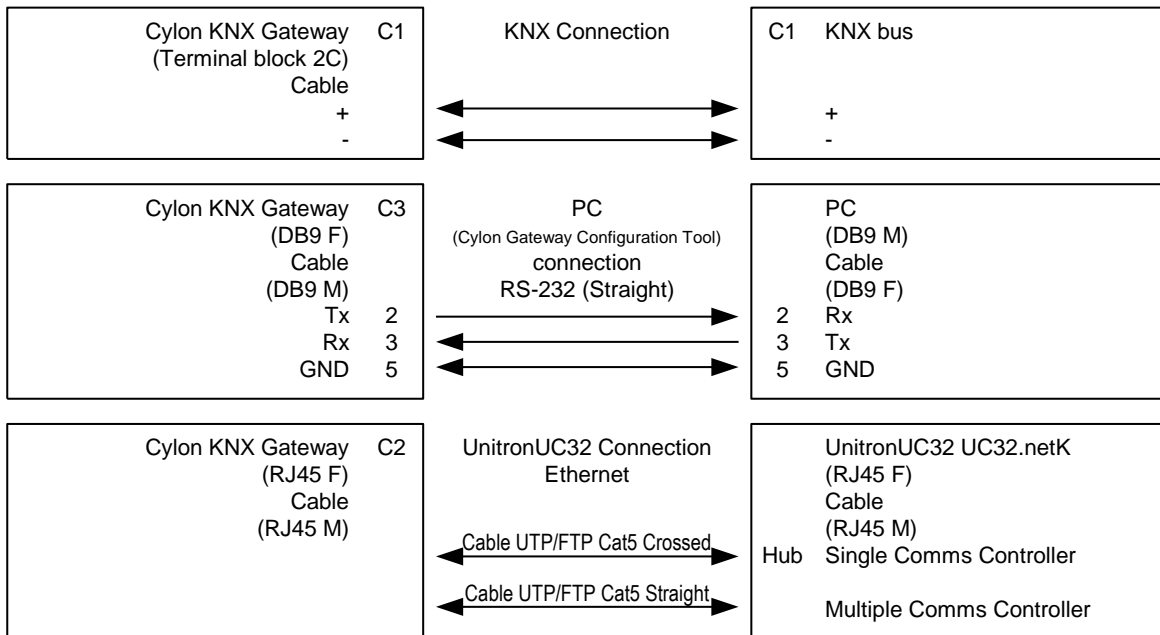
Dimensions



Free space recommended to install the device into a cabinet (wall or DIN rail mounting), with space enough for external connections:



Connections



Specifications:

Mechanical & electrical characteristics

Enclosure	Plastic, type PC (UL 94 V-0). Dimensions: 107mm x 105mm x 58mm.
Colour	Light Grey. RAL 7035.
Power	9 to 30VDC +/- 10% 1W. 15 to 24VAC +/- 10% 1,2VA. Plug-in terminal bloc for power connection (2 poles). Earth terminal.
Internal back-up battery	Lithium 3v, CR2032 type, interchangeable. ¹
Mounting	Surface. Wall. DIN rail EN60715 TH35 (Also possibility to mount in TH15 and G32 rail using additional accessory).
Cylon port	1 x Ethernet 10BT
KNX port	1 x KNX TP1 (EIB) port opto-isolated. Plug-in terminal bloc (2 poles).
LED indicators	1 x Power. 2 x KNX port activity (Tx, Rx). 2 x Ethernet port link and activity (LNK, ACT). 1 x KNX programming/bus. ²
Push buttons	1 x KNX programming. ²
Console port	RS232. DB9 female connector (DCE).
Configuration	Via console port. ³
Firmware	Allows upgrades via console port.
Operational temperature	-40°C to +70°C
Operational humidity	5% to 95%, non condensing
Protection	IP20 (IEC60529).
RoHS conformity	Compliant with RoHS directive (2002/95/CE).

¹ The battery is installed into a socket (easily interchangeable). The battery life is approx. **1.6 years** in stock conditions (device not powered). In normal use conditions (device powered during at least 90% of the time since factory battery installation) the battery life will be the maximum in this kind of batteries, 10 years approx.

² Not operational for the moment. Reserved for future use.

³ Standard cable DB9male-DB9female 1,8 meters long is supplied with the device for connection to a PC COM port for configuring and monitoring the device. The configuration software, compatible with Windows® operating systems, is also supplied.

Configuration

Software	Cylon Gateway Configuration Tool (downloadable from :http://www.cylon.com/support/UnitronUC32/software/software.php)
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Functional characteristics

Object	Max. (KNX Gateway)	Max. (KNX Gateway Extended)	Notes
Number of Cylon analog points	500	1000	Maximum number of analog points that can be defined in the virtual Cylon site inside Cylon KNX Gateway.
Number of Cylon digital points	500	1000	Maximum number of digital points that can be defined in the virtual Cylon site inside Cylon KNX Gateway.
Number of Cylon points	500	2000	Maximum number of points (including analog and digital) that can be defined in the virtual Cylon site inside Cylon KNX Gateway.
Number of Cylon UCs supported	254	254	Maximum number of UCs that can be defined in the virtual Cylon site inside Cylon KNX Gateway.(of type UC32.24).
DataLogs	50	50	Maximum number of Cylon datalogs that can be defined in the virtual Cylon site inside Cylon KNX Gateway (formats available: 1 sec, 1 min, 5 min, 10 min, 15 min, 20 min, 30 min, 1 hour, 6 hour, 1 day). Size of datalogs: up to 1000 registers each.
Alarms	100	100	Maximum number of Cylon native alarms that can be defined in the Cylon KNX Gateway. To be associated to analog and digital points, allowing alarm generation associated to point changes.
ReadOuts	500	500	Maximum number of ReadOuts that can be defined in the Cylon KNX Gateway. To be associated to analog and digital points, allowing a change in a real Cylon point value to be transmitted to the KNX system.
WriteOuts	500	500	Maximum number of WriteOuts that can be defined in the Cylon KNX Gateway. To be associated to analog and digital points, allowing a KNX point value to be transmitted to the Cylon system.
KNX (EIB) groups	500	2000	Up to 2000 different EIB groups can be defined.
KNX (EIB) listening addresses	1000	1000	Maximum number of different EIB group addresses that can be defined as listening addresses, one or more of these listening addresses can be assigned to every point. With this, more than one EIB group address of the KNX system can actuate on the same Cylon KNX Gateway point.
KNX EIS (DataPoints) supported			switching (1 bit) dimming (4 bit) float (16 bit) scaling (8 bit) drive control (1 bit) priority (2 bit) float IEEE (32 bit) counter (8 bit) counter (16 bit) counter (32 bit) ASCII char (8 bit)