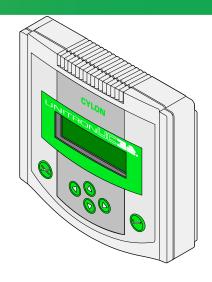
UCKRA420

The UCKRA420 is a keypad interface for the Unitron system, which allows conditions on a Unitron site to be viewed and changed. It can also be used to configure UC32 controllers.



- 80 alpha-numeric characters arranged as 4 lines x 20 characters.
- Access available to all points on a UnitronUC32 site, subject to preprogrammed password.
- Supertwist LCD with backlight.
- Single-turn pot for contrast adjustment

The UCKRA420 keypad is part of the UnitronUC32 range of products, which offers the following benefits:

Unique Flexibility with UniPuts™

The <code>UnitronUC32</code> range uniquely presents <code>UniPutsTM - a</code> revolutionary answer to flexible point configuration, offering maximised utilisation of controller capacity along with flexibility in strategy changes. Built on a modern web-based architecture, the <code>UnitronUC32</code> range has a wide application scope with the flexibility of being stand-alone or network enabled.

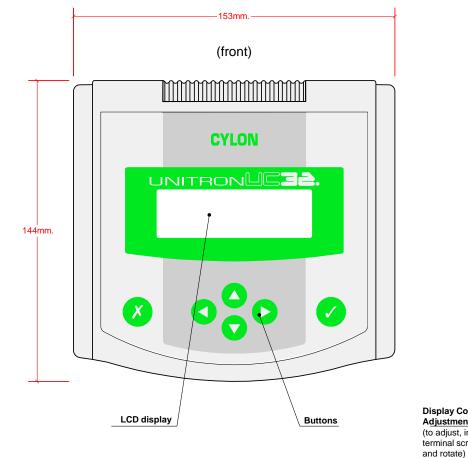
Cost Effective, low entry point for building control

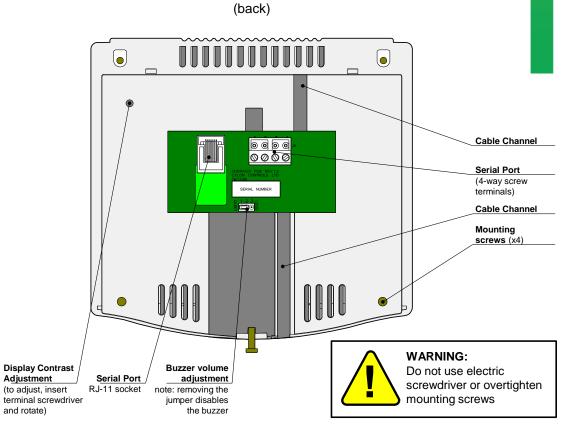
The **UnitronUC32** range offers reduced costs in terms of training, implementation, rollout and maintenance. Modular, extendible packages along with low installation costs mean a low entry point for building control. The future-proof **UnitronUC32** range provides forward & backward compatibility, meaning an effortless upgrade path for existing **Unitron** Systems.

Highly programmable and extendable through webenabled HVAC technology

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









Specifications:

Size	154 x 144 x 35 mm (6.1 x 5.7 x 1.4")
Enclosure	Injection moulded ABS
Mounting	Panel Door, Panel Backplate, or Pattress Box

ENVIRONMENT

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

Ambient Temperature	0° - 50°C (32°-122°F) ambient.
Ambient Humidity	0% - 90% RH non-condensing
EMC Immunity	EN 50082-1
EMC Emission	EN 55011 Class B

WIRING

Note: Use Copper or Copper Clad Aluminium conductors only.

Termination	RJ-11 Socket or 4 way-screw terminals
Cable for screw terminals	4-core AWG 24 (min) unshielded
Cable for RJ-11 connector	Pre-made Cylon cable (length 2m)
Maximum cable length	50m

ELECTRICAL

Note: UCKRA420 keypad is hot-plugable, i.e. it can be connected to a powered-up controller

Supply Requirements			associated	

COMMUNICATIONS

RS232 port a 9600 Baud

INTERFACE

Display 80 alpha-numeric characters arranged as 4 lines x 20 characters.

Supertwist LCD with backlight.

Single-turn pot for contrast adjustment

UCKRA420 Installation Instructions

Note: mounting options are available for US, UK and European Pattress Boxes.

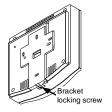
The UCKRA420 may be mounted

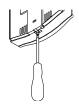
a) in a Panel Door (see *Section 6* below)

b) on a Panel Backplate (see Section 4 below)c) on a Pattress Box (see Section 3 below)

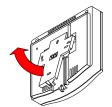
In all cases, the mounting bracket is removed from the **UCKRA420** (see *Section 1* below), and cable attached by either RJ-11 or Screw-Terminal connectors as detailed in *Section 2* on page 2.

Section 1 - Removing the Mounting Bracket







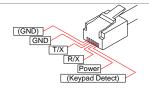


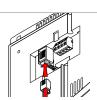
Lift the bottom of the bracket away from the UCKRA420, until it is clear of the locking screw.

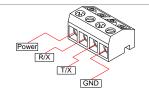


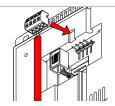
Unclip the top of the bracket by pulling the bracket downwards

Section 2 - Connecting the UCKRA420 to UCxxPG-R controller







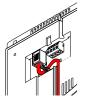


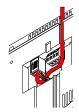
1. RJ-11 connector

2. Screw-terminal connector

Connect a cable to the ${\bf UCKRA420}$ using an RJ11 plug OR a Screw-Terminal connector

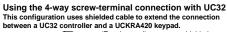


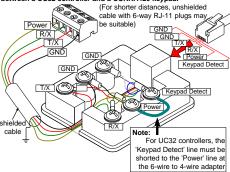






Connect the other end of the cable to the RI-11 port of a UC controller

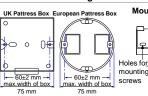


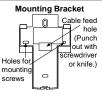


1. Downward cable channel OR 2. Upward cable channel

Route the cable through one of the cable channels so that the mounting bracket can be re-attached.

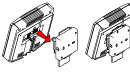
Section 3 - Mounting the UCKRA on Pattress Boxes











The UCKRA420 can be mounted on pattress boxes where the holes are 60±2 mm apart.



Attach the mounting bracket to the pattress

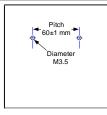


Place the UCKRA420 on the Mounting bracket by clipping the top first.

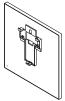
Swing the UCKRA420 so that it is flat against the mounting bracket.

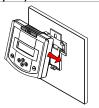
Tighten the Mounting Bracket locking screw at the bottom of the UCKRA420.

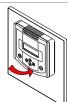
Section 4 - Surface-Mounting the UCKRA420 (e.g. on a Panel Backplate)













Drill two holes in the flat surface, diameter = M3.5 pitch = 60 ± 1 mm

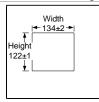
Attach the mounting bracket with two M3.5 x 16 screws as shown.

Place the UCKRA420 on the Mounting bracket by clipping the top first.

Swing the UCKRA420 so that it is flat against the mounting bracket.

Tighten the Mounting Bracket locking screw at the bottom of the UCKRA420.

Section 5 - Mounting the UCKRA420 on a Panel Door



Remove the 4

screws from the

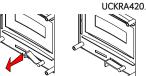
back of the







Make a cut-out in the Panel Door 122±1 mm high x 134±2 mm wide.



Pull the clip away from the door and

down, so that it sits flat inside the

from the front of the UCKRA420.

Take the faceplate



Connect the keypad connector ribbon cable from the PCB as shown. Panel Door.

Disconnect the keypad connector ribbon cable from the PCB as shown.



Fit the main body onto the faceplate on the back of the

Place the faceplate in the Panel Door, hooking the clip onto the bottom of the cutout



Swing the faceplate upwards until it sits in the cutout.

Warning: Do not overtighten the four mounting screws when mounting the Keypad on a panel door.

Secure the main body onto the faceplate with the 4 screws as shown.



cutout.

Subject to change without notice ©2016 Cylon Controls All Rights Reserved

UK Patent GB 2 400 991 Irish Patent 84413

WWW.CYLON.COM UCDS0035 rev 7