



# ALCP100

## ALTAIR RESETTABLE CALL POINT



928h/02

### GENERAL DESCRIPTION

This product is a resettable fire emergency call point compatible with control panels using the Vega communication protocol. Due to its resettable characteristic, following activation, the operating element can be simply restored with its supplied reset key and made ready for immediate re-use.

### IMPORTANT INSTALLATION NOTES

- The location of call points must follow recognised national or international application codes of practice.
- This product is to be used in conjunction with compatible control panels employing the Vega protocol.
- This product is indoor use only.
- Connections to the terminals are polarity sensitive: check them by referring to the wiring instructions contained in this manual.
- Disconnect the loop from the control panel during installation.
- Reconnect the loop to the control panel after installation completion.
- Test the device after it has been installed.
- Test periodically this device.
- Take care that every single device on the loop is programmed with a unique address.

### DEVICE ADDRESSING

This device needs to be programmed with a unique analogue loop address; address values range from 1 to 240. Address can be programmed in this device in two different ways:

- through a specific manual programmer, obtainable from the supplier; the programmer is connected to the front device block through its loop's terminal block socket and the addressing procedure is performed (check the programmer's documentation).
- Through the automatic addressing feature of the control panel (if your specific model has been designed with such feature); for more details about the "auto-addressing" feature refer to the control panel's literature.

### LOOP AND DEVICE INDICATION

The installer has the possibility to record on the device a loop identification number and the analogue address of the device itself; for this purpose a specially provided label is attached on the back of the device (picture 1).

### WALL ADAPTOR BASE CABLING SETUP

It is possible to setup cable entry points on the wall adaptor's base:

- on the rear side: two 20 mm breakable and detachable entry holes allow loop's cable entry (picture 2).
- On the top or low lateral sides: 20 mm entry holes can be drilled on these sides through the aid of templates imprinted on the plastic (picture 2).

### WALL ADAPTOR BASE INSTALLATION

Install the wall adaptor base in the selected position; inside the base is imprinted the "TOP" side indication that must be used for correct installation.

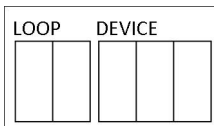
Fix the back box using the 2 provided screws: insert them in the diagonally opposite screw holes (picture 3).

### TECHNICAL SPECIFICATIONS \*\*

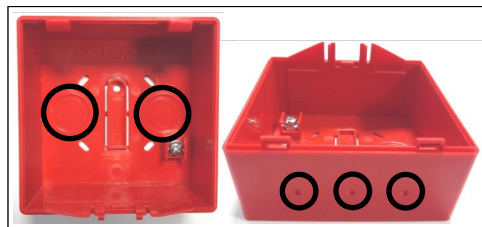
Power supply voltage range	18 to 40 VDC *
Standby current consumption	35 µA (at 24 VDC)
Compatible wire's diameter range	0.5 - 2.5 mm
Operating temperature range (design range)	-30°C to 70°C
Operating temperature range (EN 54-11 approved range)	-10 to 55 °C
Max humidity (no condensation)	93% RH
Application	Type A - For indoor use only

\* Product operates down to 15 VDC, but device's light indicator is disabled, even in activated state.  
For the EN 54-11 application the supply voltage range is 18-40Vdc; at this range the visual LED indicator will be switched ON.  
For the EN 54-17 application the supply voltage range is 15-40Vdc.

\*\* Check TDS-ALCP100 held by the manufacturer for further data



Pic. 1



Pic. 2

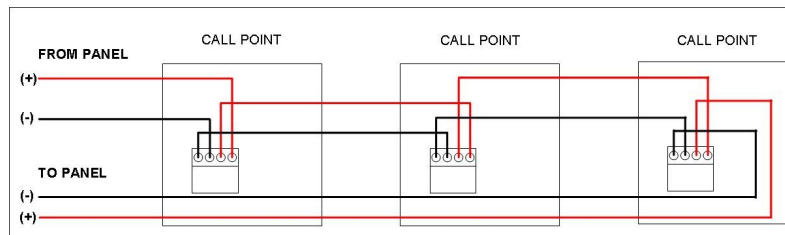


Pic. 3

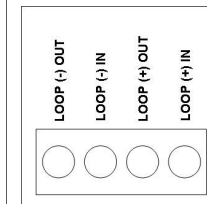
### WIRING

Feed the loop cables into the wall adaptor base, allowing sufficient length for comfortable wiring. Insert the supplied terminal block connector into its socket behind the front block.

Following is illustrated the connection scheme for wiring to the analogue loop one or more call points (picture 4); a diagram of the terminal block's usage is also given (picture 5):



Pic. 4



Pic. 5

### SHORT CIRCUIT PROTECTION

All Altair devices are internally short circuit protected; if a short occurs, the affected loop's section is immediately isolated and the condition is signalled to the control panel. When the short is handled, the loop section is de-isolated again and brought back to normal.

### INSTALLING THE FRONT BLOCK

The front block has to be installed onto the wall adaptor base (picture 6).

- 1) Hook the upper rear side of the front block to the wall fixed base.
- 2) Securely lock the front block by pushing its bottom towards the base.

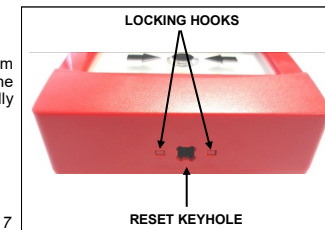
Pic. 6



### RELEASING THE FRONT BLOCK

To remove the front block from its base push towards the inside the two locking hooks at the bottom of the call point (picture 7); for this purpose use the two unlocking pins located at the side of the supplied call point's reset key. The front block will unlock from its wall base and can be manually detached from it.

Pic. 7



### WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation. Smoke sensors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Sensors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions. Refer to and follow national codes of practice and other internationally recognized fire engineering standards. Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

### WARRANTY

All devices are supplied with the benefit of a limited 5 years warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified. Full details on our warranty and product's returns policy can be obtained upon request.



ARGUS SECURITY S.R.L.  
Via del Canneto, 14  
34015 Muggia (TS)  
Italy

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AT0710CPR  
AT0710UK

EN 54-11:2001+A1:2005

EN 54-17:2005

ALCP100

For use in compatible fire detection and alarm system

Type A - For indoor use only

### **CALL POINT ALARM ACTIVATION**

This call point is activated by pressing the centre of the transparent front window (picture 8). Following activation, the central red light indicator switches on and an indicator bar rises into view from the bottom of the transparent front window; this condition is immediately signalled to the control panel (picture 8).

### **CALL POINT RESET**

Call point is mechanically reset by inserting the reset key into the bottom device's keyhole; turn the key clockwise until a snap sound is heard; the window's indicator bar will fall out of sight; to extract the key from its keyhole, turn it slightly counter-clockwise, then pull it outside (picture 7).

To recover the system from its alarmed status a reset on the control panel must be performed; following system reset the red light indicator switches off.



*Pic. 8*

### **TESTING**

To test the device:

- 1) Connect the loop to the control panel (if installation is not yet completed).
- 2) Activate the call point.
- 3) Check the alarmed status of the system and the call point's indicators (red light and bottom bar).
- 4) De-activate the call point.
- 5) Reset the system from the control panel.
- 6) Disconnect the loop from the control panel (if installation is not complete).