

Analogue LHD Control Unit - PC Programmable Alarmline II Series



Overview

The AACULP is a PC programmable, Analogue Linear Heat Detection (LHD) cable control unit. It provides monitoring for any of the AA range of LHD sensor cable, configuration of alarm and pre-alarm temperatures as well as enabling simple interface to a main fire alarm or BMS system.

Interface and Programming

The AACULP provides LED indications only and requires a PC to configure the control unit.

Pre-Alarm and Alarm thresholds can be set through simple menu options with no need for any graphs or nomograms. Initial set-up is done by measuring and entering the calibration resistance of the sensor cable removing the need to know the sensor cable length.

Volt free changeover contacts are provided inside the control unit for Pre-Alarm and Alarm signaling to a main fire alarm control panel or BMS system. A failsafe opt-isolated phototransistor fault output is also provided.

No user controls are provided on the control unit. An isolated input is provided enabling remote reset functionality.

Operation

As well as monitoring the LHD sensor cable for changes in temperature, the control unit also monitors for open and short circuit faults along the cable ensuring notification if the cable becomes damaged. It is fitted with its own internal temperature monitor and should the temperature within the controller enclosure reach 100°C, an alarm will be signalled.

Each control unit may have up to 500, of LHD sensor cable connected to it, acting as single detection zone. When the LHD sensor cable and the control unit are installed in different areas, a suitable interposing cable can be used to make the electrical connection between them.

Standard Features

- UL521 and CE approval
- Up to 500m of sensor cable per zone
- Separate pre-alarm and alarm signals
- Easy programmable interface
- Enclosure temperature alarm
- IP65 rated enclosure
- No nomograms or charts required



Australia & New Zealand

Phone: 1800 672 171

Outside Australia: +61 3 9518 5588

Email: firesecuritycs@carrier.com

Web: www.kidde.com.au

Head Office

10 Ferntree Place

Notting Hill, Victoria 3168

Australia

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Specifications

Operating Voltage	20-28VDC
Current consumption	
Quiescent	<70mA
Fault	<70mA
Pre-Alarm	<80mA
Alarm	<80mA
Pre-alarm and alarm	<100mA
Outputs	
Pre-Alarm (Form C Relay resistive load)	2A @ 30VDC / 0.25A @ 250VAC (62.5VA)
Alarm (Form C Relay resistive load)	2A @ 30VDC / 0.25A @ 250VAC (62.5VA)
Fault (Opto-isolated phototransistor output) Max.	50V @ 20mA
Inputs	
Remote reset (isolated) 5s pulse	20-28VDC
Zone length	30.5m to 500m
Mechanical	
Material	Polycarbonate
Colour	Light grey
Weight	804g
Dimensions (W x H x D)	182 x 180 x 90mm
Environmental	
Operating temperature (max)	0 to ±50°C
Relative humidity	0% to 95% (Max 75% RH for <75m cable & 54°C alarm setting)
IP rating	IP66
IK rating	IK08

Ordering information

Part number	Description
AACULP	Alarmline II Analogue LHD Control Unit - PC Programmable