# AAECU

## AlarmLine II Analogue EN Control Unit

### General

The AlarmLine II Analogue EN Linear Heat Detection (LHD) system comprises of AlarmLine II Analogue EN Linear Heat Detection (LHD) sensor cable (AAE-xxxx), a AlarmLine II Analogue EN Controller (AAECU) and a AlarmLine II Analogue EN end of line unit (AAECU-EOL). The controller provides monitoring of the AlarmLine II Analogue EN 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 & Programming

The AAECU provides LED indications as well as a LCD. Internal pushbuttons allow for easy configuration without the need for a PC. Configuration via PC is also supported via a USB connection and the optional configuration software AAECU-PCC.

Pre-Alarm and Alarm thresholds can be set through simple menu options. Initial set-up is done by measuring and entering the calibration resistance of the sensor cable, as well as the 3 letter cable parameter identifier.

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 opto-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 (212°F), an alarm will be signaled.

Each control unit may have up to 500m (1640ft) of LHD sensor cable connected to it, acting as a single detection zone.

### Details

The AAECU is supplied with an End-Of-Line unit (AAECU-EOL) included. The End-Of-Line unit (AAECU-EOL) is also available separately as a spare part.

A junction box (AAECU-JUN) is also available separately, if two pieces of cable needs to be joint.




### Details

- VdS EN54-22:2015/prA1:2007 certified
- Up to 500 m of sensor cable per zone
- Separate pre-alarm and alarm signals
- Easy programmable interface
- Enclosure temperature alarm
- IP65 rated enclosure

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## Technical specifications

### General

| | |
|---|---|
| Status indication | 4 x LED's (power, fault, pre-alarm & alarm) |
| User interface | LCD display with internal configuration buttons |
| Compatibility | AAE/ F304 & F305 series analogue LHD cable |
| Reset voltage | 5 to 28 VDC for > 3 s |
| Alarm levels | Configurable |
| Connectivity | 2-wire RS-485 Modbus RTU or ASCII |

### Electrical

| | |
|---|---|
| Power supply type | Ekstern |
| Power consumption | < 2 W |
| Operating voltage | 20 to 30 VDC |
| Current consumption | 59 mA at 30 VDC |

### Detection

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|---|---|
| Detection principle | Heat - Classes A1I/A2I & BI |
| Alarm temperature (maximum) | +100°C |
| Alarm temperature (minimum) | +54°C |

### Input

| | |
|---|---|
| Input quantity | 1 for remote reset |
| Input type and rating | 5 to 28 VDC (at 2 mA) > 3 s |

### Output

| | |
|---|---|
| Output quantity | 3 for fault, pre-alarm and alarm |
| Output type and rating | Pre-alarm and alarm: relay with NO/NC/C connections (2 A at 30 VDC), Fault : NC opto-isolated phototransistor output |

### Physical

| | |
|---|---|
| Physical dimensions | Controller: 182 x 180 x 90 mm (7 1/8" x 7 1/8" x 3 1/2") (W x H x D)<br>EOL unit: 100 x 60 x 35 mm (4" x 2 3/8" x 1 3/8") (W x H x D) |
| Net weight | Controller: 860 g<br>EOL unit: 115 g |
| Colour | Jasnoszary |
| Mounting type | Montaż nawierzchniowy, Vægmontering |
| Material (body) | Polycarbonat |

### Environmental

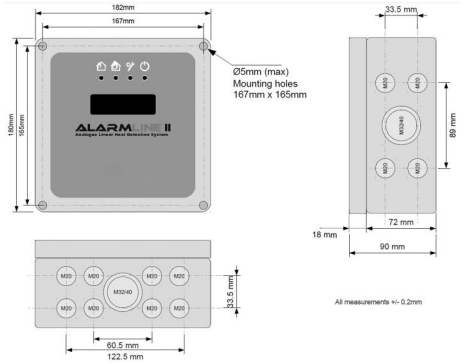
| | |
|---|---|
| Vandal proof | No |
| Operating temperature | Controller: -20 to +50°C<br>EOL unit: -40 to +125°C |
| Relative humidity | Controller: 0 to 99% ambient temperature -20 to +30°C / 0 to 75% ambient temperature greater than +30°C<br>EOL unit: 0 to 99% ambient temperature -40 to +40°C / 0 to 75% ambient temperature greater than +40°C |
| IP rating | Controller: IP65 (IK08)<br>EOL unit: IP65 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 3, WEEE |
| Certification | CPR |
| Voluntary marks | VdS |
| Standards | EN54-22 |

### Compatible products

| Category | Reference | Description |
|---|---|---|
| Detection device | AAE-0100 | AlarmLine II Analogue EN LHD Cable w/ PVC Sheath, 100 m |
| Detection device | AAE-0200 | AlarmLine II Analogue EN LHD Cable w/ PVC Sheath, 200 m |
| Detection device | AAE-0500 | AlarmLine II Analogue EN LHD Cable w/ PVC Sheath, 500 m |
| Detection device | AAECU-EOL | AlarmLine II Analogue EN LHD Replacement Part – EOL module |
| Detection device | AAECU-JUN | AlarmLine II Analogue EN LHD Junction box |
| Detection device | AAECU-PCC | AlarmLine II Analogue EN LHD PC Software w/ USB Cable |
| Detection device | F3051-0100 | Alarmline II Analogue EN LHD Cable w/ Nylon Sheath, 100 m |
| Detection device | F3051-0500 | Alarmline II Analogue EN LHD Cable w/ Nylon Sheath, 500 m |
| Detection device | F3052-0100 | Analogue EN LHD Cable w/ PVC Sheath & Stainless Steel Braid, 100 m |
| Detection device | F3052-0500 | Analogue EN LHD Cable w/ PVC Sheath & Stainless Steel Braid, 500 m |




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