

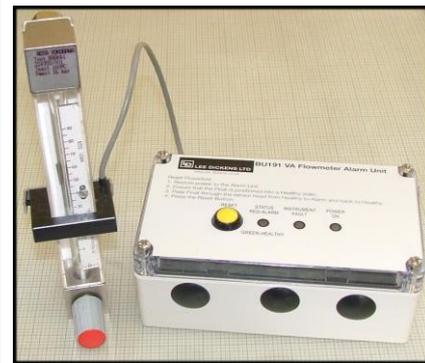
VA Flowmeter Alarm Unit – Single Channel**BU191**

Data Sheet Issue 12.0

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Function: The BU191 is a universally powered Alarm Unit suitable for use with a number of different VA Flowmeters. It can be configured for use as a Low or a High Flow Alarm, as required. Each different VA Flowmeter will require a different sensor head for mechanical reasons but in all cases the operation of the Alarm Unit is the same. The sensor heads, which have to be ordered separately, come with 5M of cable for connection to the Alarm Unit. The BU191 has an "Instrument Fault" indication LED (Amber) which is triggered following loss of power or loss of connection to the Head. This LED can only be cleared by restoring power or replacing the head, passing the float from the Alarm State to the Healthy State and pressing the RESET button to initiate the "Stable" condition. The BU191 incorporates a sensitivity adjustment to cater for different VA Flowmeters.

Please note: VA Flowmeters are not supplied with the Alarm Unit.



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SPECIFICATIONS**INPUTS:**

From BH19-???? Sensing Heads suitable for:

VA Flow Meters
Emerson 1100
Emerson 1300
Yokogawa RAGK Series with K6, K7, M6 and M7 tubes
And others to be advised

Sensitivity Pots

1 per channel
For minimum sensitivity wind sensitivity potentiometer fully anti-clockwise

Installation

BU191/BH19-???? have been designed to be easily retro-fitted to existing VA Flowmeters

OUTPUTS:**Alarm Relay**

Type: G7SA3A1B Omron
EN50205 Class A approved
4 Pole Single Throw Relay
3 x Normally Open
1 x Normally Closed

Contact Ratings:

Rated Load:
6A at 230 Volt AC
6A at 30 Volt DC
Rate Carry Current: 6A
Max Switching Voltage:
250 Volt AC, 125 Volt DC
Max Switching Current: 6A
Max Switching Capacity:
1,500 VA, 180 W

SUPPLY:**Universal Power Supplies**

Wire into appropriate terminals
115 +15%/-10% Volt AC
230 +15%/-10% Volt AC
50/60 Hz
and 22 to 28 Volt DC

Power Required

3.0 VA Maximum (AC)
40mA (DC)

PANEL INDICATIONS:**Pilot Light**

White LED indicates Power ON

Instrument Fault Light

Amber LED

Flow Alarm State Light

Green = Healthy
Red = Alarm

GENERAL:**Enclosure IP Rating**

IP65

Operating / Storage Temperature Range

0 to +45°C / -20 to +60°C

Operating & Storage Humidity Range

0 to 95% RH non-condensing

EMC

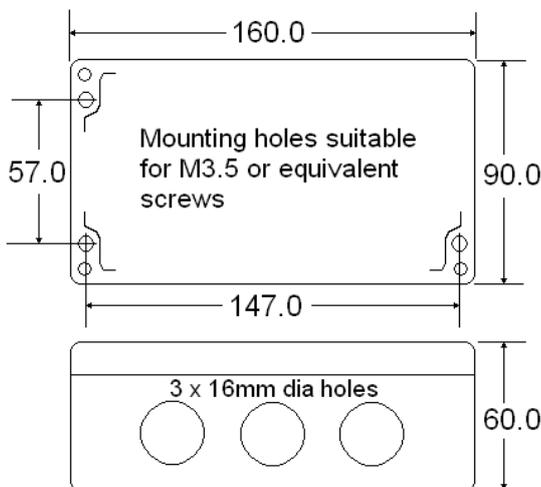
EN 61000-6-2:2001 Industrial
EN 61000-6-4:2001 Industrial

Weight

485 gms

IEC 61508 – SIL Rating

SIL 2 or better

MECHANICAL and INSTALLATION DETAILS

All dimensions in mm

TERMINATION DETAILS

Terminal

Connector 1 POWER SUPPLY

- 1 230 Volt AC Live
- 2 115 Volt AC Live
- 3 Neutral
- 4 Earth
- 5 -ve DC
- 6 +ve DC

Connector 2 SENSOR HEAD

- | | |
|----------------|--------|
| 1 Light Source | Red |
| 2 Sensor 2 | Green |
| 3 Sensor 1 | Yellow |
| 4 Common | Blue |
| 5 Screen | |

Terminal

Connector 3 RELAY OUTPUT

- 1 Normally
- 2 Open Pair 1
- 3 Normally
- 4 Open Pair 2
- 5 Normally
- 6 Open Pair 3
- 7 Normally
- 8 Closed Pair 1

ORDERING DETAILS

- a) Give identification code, i.e. BU191 and BH19-1100
- b) Give all details of VA Flowmeter with which it is to be used
- c) State if the Alarm is to be a High Flow or a Low Flow alarm

DOCUMENTATION

- a) O & M Manual
- b) Independent EMC Testing Report
- c) FMEDA SIL Rating Report