

# FDB-VDA2

## Earth Leakage Monitor

### OPERATION

The leakage current is monitored by an external differential current transformer e.g. MU28 which is connected via terminals i and k to the VDA2.

All conductors to be monitored except the earth wire are run through the CT. In a fault free healthy circuit the sum of all the current is zero. In a fault situation current flows to earth which is detected by the current transformer and measured by the VDA2.

A broken wire in the connection to the CT would disable this measurement; therefore a protection circuit detects this & trips the VDA2.

The unit has two single pole changeover contacts  
Terminals 11-12-14 for Trip  
Terminals 21-22-24 for Alarm

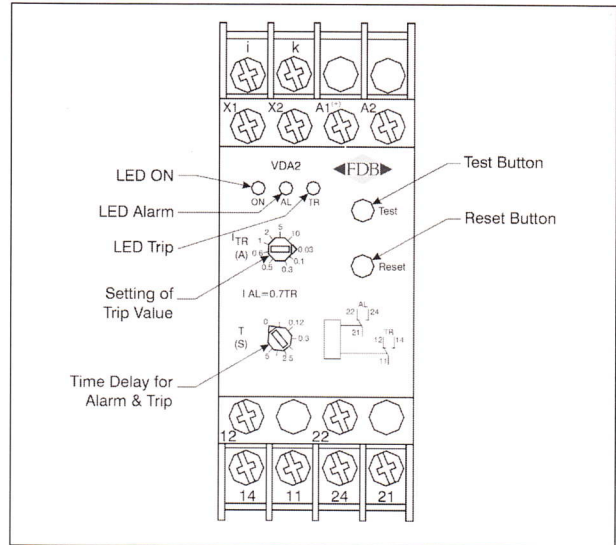
Alarm is detected at 70% of the selected trip level. The VDA2 is auto-reset & the trip is not stored, by fixing a external bridge connection across terminals X1 & X2 the trip is stored and has to be reset by pressing the reset button or removing the auxiliary supply.

Adjustable Delay is same setting for both alarm & trip.

To avoid any unauthorised adjustment of the setting potentiometers the unit has a transparent cover that could allow these to be sealed with a lacquer.

Holes in cover above test/reset buttons allow activation.

Power on indication green LED & alarm/trip indication via red LED's.



### ORDER REFERENCE:

### VDA2

### TECHNICAL DATA

Nominal Control Voltage	24-230V AC/DC
Tripping Current AC	0.01A, 0.03A, 0.1A, 0.3A, 0.6A, 1A, 2A, 5A, 10A
Reaction Time	10-30 Milli-seconds
Time Delay	0-10 Seconds
Output Relay	1 SP Changeover contact alarm 1 SP Changeover contact trip
Switching Capacity	N/O Contact 3A/230V AC N/C Contact 1A/230V AC
Temperature Range	-20 + 60° C
Degree of Protection	IP20

Dimensions (wxhxd)	35 x 90 x 63mm
Weight	125g

In line with our policy of constant improvements, we reserve the right to vary the specifications contained in this leaflet.

The services of our Technical support staff are available for assistance or guidance on earth leakage problems and possible solutions please contact us at:

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We manufacture a complete range of electrical safety products. Please contact us for further details.