RD317 *(vertical side text)*

ShockLog *(vertical side text)*
Electronic Monitoring Systems *(vertical side text)*

The RD317 ShockLog™ has been designed to offer a cost effective solution to the increasing need to monitor environmental influences, especially shock and vibration, on goods in transit. This cost effective instrument offers several unique features that significantly reduce the cost of deployment in the field and permit the effective use of shock monitoring equipment by unskilled personnel. In normal circumstances it is not necessary for field staff to use a PC or similar hand held computer to fully utilise the RD317.

More importantly it tells you when incorrect physical handling, poor quality packaging or inappropriate temperature and humidity control is likely to have damaged the quality of your product, your reputation and cash flow.
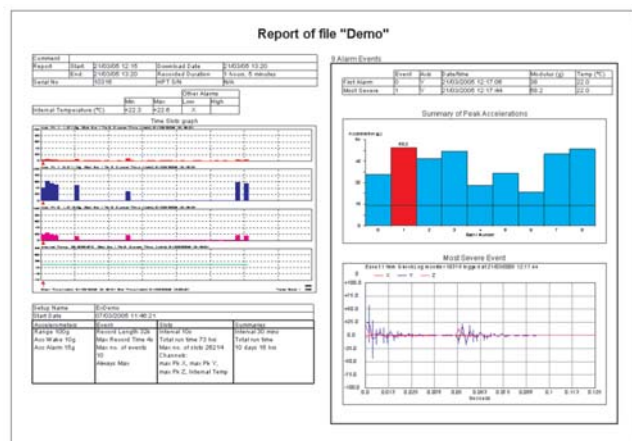
RD317 provides you with:

- **The when, where and how** - Real time date stamping identifies when a shock has occurred. When combined with the axis of impact, a clear picture of the likely damaging event emerges allowing effective remedial action to be taken.

- **Arbitration deterrent** - The RD317 is vital for determining at what point during a journey damage may have occurred. As the information is clear, accurate and incontestable, it is invaluable in arbitration by avoiding unnecessary delays in apportioning responsibility.

- **A visible deterrent** - The sheer presence of the RD317 acts as a clear indication that your products are being monitored. By involving your staff, carriers and customers in the monitoring program, inappropriate handling or storage can be minimised.

- **Identifies staff training needs** - Routine analysis of the data collected by the RD317, will identify potentially damaging handling or storage situations before they become critical, allowing you to act accordingly.

- **Extends your quality image** - Your in house or ISO quality program can now extend beyond your despatch bay, whilst providing clear evidence to your customer of the care and commitment you have to them.

Whether it's safe guarding temperature sensitive foodstuffs, delicate electronics, priceless works of art or other valuable consignments, our range of shock and environmental monitoring products should be a vital part of your consignment.

ShockLog™ Software

The comprehensive Windows™ based software allows you to program your own wake up and alarm levels as well as the frequency of data collection required.

When a programmed impact, temperature and / or humidity level is exceeded a visual alarm will alert you as well as storing the data for future analysis.

RD317 key Features:

- **iButton Interface** - Utilising the latest in iButton technology, Set-up, Downloading of Data, starting and stopping commands can all be sent via iButtons.

- **Long Battery Life** - The RD317 is capable of offering up to 9 months monitoring from a single AA Battery.

- **Rugged Aluminium Case** - Turned Aluminium case sealed to IP67.

- **Event Recordings** - Recoding the first followed by the next 9 most significant events, the RD317 will always capture the most important events.

- **Timeslot Graphics** - Journey history is recorded via the timeslot graphics.

- **500 Day history** - The RD317 is fitted with Non volatile memory capable of recording up to 500 days of history.

Its compact, lightweight design, supported by a battery life of up to 9 months makes it ideally suited for routine monitoring of your products and the environment they encounter.

Programming of the RD317 and subsequent data retrieval can be carried out quickly and efficiently through the use of the innovative iButton technology, which, by removing the need for localised laptop or PC, simplifies management of the monitoring process.

All 317 kits contain:- RD317 unit, 1.5v alkaline battery, set-up manual, RS232 communication cable, fixing kits, carrying/storage case, iButton serial Bus, iButton serial connector, a full set of iButtons (Start, Stop, download, and Set-up), Warning labels, and one ShockLog™ software user licence.

RD317 Specifications

Kit Part Numbers	Unit Only	Range	Maximum frequency	Humidity Sensor
31700R1F2H0K	31700R1F2H0	10g	40Hz	No
31700R1F2H1K	31700R1F2H1	10g	40Hz	Yes
31700R2F1H0K	31700R2F1H0	100g	250Hz	No
31700R2F1H1K	31700R2F1H1	100g	250Hz	Yes

Environment	* Note IP67 rating does not apply to humidity sensor.
Operating Temperature	-40c to +85c -40F to +185F
Operating Humidity	0-100% Non Condensing
EMC	EN50022, EN50082-1, FCC CFR47 (July 1996) Part 15 Limit B
Physical	
Case Size	85 x 85 x 50 mm
Case Material	Aluminium & Steel
Case Rating	IP67 * (with connectors and cap fitted)
Weight	0.445 Kg
Interface	RS232 & iButton
Indicators (5 LEDs)	Power, Alarm, Stop, iButton In, and iButton Ok
Battery Options	Lithium 1 x 3.6V lithium thionyl chloride Min 2.2Ah
	Alkaline 1 x 1.5V size AA
Performance	
Range	± 10g or ± 100g (See part numbers)
Resolution (% of full scale)	0.5%
Scale factor accuracy	± 5% (event record)
Wake up threshold (% of range)	10% to 95%
Alarm Threshold (% of range)	10% to 95%

About Lamerholm Electronics Ltd.

Lamerholm Electronics, develop, manufacture and market a broad range of shock, environmental, temperature monitoring and damage prevention products. The companies' worldwide distribution network is coordinated from the UK base, at:

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