

RD299 HPT Sensor

Humidity, Pressure and Temperature Sensor

The RD299 is a combined humidity, pressure and temperature sensor for use with the RD298 ShockLog™ recorder. It enables any version of the RD298 to monitor an extended range of environmental factors and is fully supported by the ShockLog™ software.

RD299 HPT sensor



RD298 ShockLog ™ Recorder with RD299 HPT sensor fitted (Humidity, Pressure & Temperature)



- Direct connection to RD298 ShockLog™
- Fully supported by ShockLog™ software
- Extended temperature range
- Robust stainless steel housing
- Obtains power from RD298 ShockLog™
- No installation – plug and play operation
- Fast temperature response
- Negligible effect on RD298 ShockLog™ battery life
- Built in calibration memory independent of RD298 ShockLog™ calibration

RD299 HPT Sensor

Packaging and Environment

The RD299 HPT has been designed to function reliably in difficult environments. The electronic components are assembled using surface mount technology and the latest automatic assembly equipment. The complete electronic and transducer package is enclosed in a stainless steel case and bonded to the military quality connector, which provides electrical and mechanical attachment to the RD298 ShockLog™ recorder.

This construction technique, in combination with the absence of cables for power or signal results in a very high immunity to electrical interference and very low levels of RF emission. The RD299 HPT may safely be used in close proximity to sensitive instruments or in difficult electrical environments.

The RD299 HPT has been designed to meet IP30 and is capable of operating at temperatures between -40 and +85°C. An extension cable is available as an optional extra for applications where the RD299 must be mounted remotely from the RD298 ShockLog ™ recorder.

Technical Specification

Complete instrument		**min**	**max**	**units**
Operating temperature range		-40	+85	°C
Drop test survival		1		m
Size	60 long x 32 diameter			mm
Case material	stainless steel + plastic			
Weight			0.09	kg
Power	obtained from ShockLog			
EMC	EN50081-1, EN50082-1			

Humidity	**min**	**max**	**units**
Measuring range	0	100	% RH
Accuracy (@25 °C, 25 – 75 %RH)	-3	+3	% RH
Resolution	0.5		% RH

Pressure	**min**	**max**	**units**
Measuring range	0	1.1	Bar
Accuracy (@ 0.2 –1.1 Bar, 25 °C)	-10	+10	mBar
Accuracy (@ 0.0 – 0.2 Bar, 25 °C)	-30	+30	mBar
Resolution	2		mBar

Temperature	**min**	**max**	**units**
Measuring range	-40	+85	°C
Accuracy (-20 to +70°C)	-2	+2	°C
Resolution	0.5		°C

About Lamerholm Electronics Ltd.

Lamerholm Electronics, develops, manufactures and markets 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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