

EN12830:2018 Annex C - Declaration of Conformance

Compliant Recorder: DS1925L-F5# iButton High-Density Temperature Logger

Declaration Date: 1/24/2023

Informative: DS1925L-F5# complies with BS EN12830:2018 standard. Listed below are the specification

showing suitability for use according to BS EN12830:2018 standard.

Type of recorder	DS1925L-F5# iButton
	Yes - 61k 16-bit readings
Suitable for storage	-122k 8-bit readings
	Yes - Durable stainless-steal
	enclosure withstands harsh
Suitable for transport	environments and conditions
I - General requirements	
Measuring range (see 5.2)	-40C to 85C
Chart (disk, tape) (see 5.5.3)	Not applicable
	3V, 48mAh Coin-type Lithium
	Battery for high temperature
	Battery Condition is available
	in software to warn users
	Expected battery life is
	provided in the product
	datasheet
Autonomous power supply (see 5.6)	
Degree of protection provided by the enclosure (see 5.7)	Yes, IP56 ¹
Supply voltage (see 5.9.1)	Not applicable
Frequency (see 5.9.3)	Not applicable
	Product datasheet declares in
	text that output logged data
	is reported if battery is
	depleted. Logged data
	duration is at least 2 years or
	more without battery as to
	support product lifetime
Power cut-offs (see 5.9.4)	graph.

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II - Requirements for metrological characteristics	
Maximum permissible error and resolution (see 5.10.2.1) and temperature measurement error (see 6.3)	Class 1 ²
	Defined in the product datasheet as selectable range from 5 min to 273 hours
Recording Interval (see 5.10.2.3)	Recorded values can be over- written if device not password protected
Recoding duration (see 5.10.2.4)	Meets requirement (Test Report No. E102 section 3.5.5) ²
	Details provided in product datasheet plot of 'Typical Product Lifetime' (D.2) and the Mission section (D.1)
Storage duration (see Annex D)	5 min measurement intervals available up to 436 days and lifetime up to 2.2 years at +85C or 4 years at +25C
Maximum relative timing error (see 5.10.2.4) and time recording error (see 6.5)	Defined in product datasheet 1 minute per month which is smaller than this requirement. (Also see Test Report No. E102 section 3.5.5) ²
Response time (see 5.10.2.5 and 6.4)	Defined in product datasheet as 130s which is much smaller than the requirement (Also see Test Report No. E102 section 3.3.4) ²
Climate environment (see 5.10.3.1) and influence of ambient temperature (see	Details provided in the product datasheet with -40C to +85C temperature recorder range and storage with battery (Also see Test Report N. E102 section 3.3.2) ²



Mechanical vibrations (see 5.10.3.2 and 6.6.6)	Meets requirements. For all three directions, no variation above 0.5°C was observed on the temperature recording ³
	Meets requirements. During and at the issue of this test, the recorder operated normally ³
	Two hours later, no variation above 0.5°C was observed for
Shock resistance (see 5.10.3.3 and 6.6.5)	the temperature recording ³
	Details provided in the
	product datasheet with -40C
	to +85C temperature
	recorder range and storage
	with battery (Also see Test
Climate environment (see 5.10.3.1) and temperature testing under storage and	Report N. E102 section
transport conditions for the recorder (see 6.6.4)	3.3.3) ²
	Conforms per EMC CE (Also
Electrical power disturbances and susceptibility to radiated electromagnetic	see Test Report N. 2016
field (see 5.9.5) and dielectric strength (see 6.6.9)	11317993 EMC CE) ⁴

Name of testing bodies:

¹Labtest Certification, Report Number 8680-1 Test device was DS1922L, which uses the same case as DS1925L. Issued 2nd March 2007.

²Cemafroid, Report Number E102, issued 19th October 2017.

³Analog Devices (ADI), Worldwide Quality dept, Report Number E2204001, issued 1st December 2022.

⁴Nemko USA, Inc., Report Number 2016 11317993 EMC CE, issued 15th November 2016.