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Newsteo Temperature LOG range - 1 sensor Product Specification



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Revisions

Revision	Issue Date	Author	Comments
3.0	2020 January 24 th	Newsteo	



Table of contents

1	Introd	luction		
2	Summ	nary of the product functioning	6	
3	Newst	teo Data Logger	7	
3	3.1 Te	echnical characteristics	7	
	3.1.1	Casing	7	
	3.1.2	Power supply / Autonomy	8	
		Antenna and RF range		
		Other characteristics		
3	3.2 Ca	asing specification	9	
3	3.3 St	arting of the Data Logger	9	
3	8.4 Ce	ertification	9	

Table of figures

Figure 1: Functioning	



1 Introduction

Object:

Define the products specifications in term of technical characteristics, physical dimensions, aperture, accessories and casing.

Products: LOG temperature range, Data Loggers with 1 temperature sensor

	References	Description
1	PFPN-LOG26-001	Newsteo temperature Data Logger with external antenna and high accuracy

References	Description
PFPN-LOG86-001	Newsteo temperature Data Logger with external antenna and high accuracy IP65

	References	Description
	PFPN-LOG36-001	Newsteo temperature Data Logger with external antenna and high accuracy IP65 EN12830 certified
LOG		



2 Summary of the product functioning

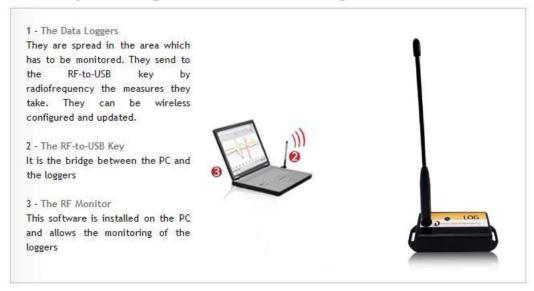


Figure 1: Functioning

The Data Loggers can be used in two different modes:

- Monitoring (real time monitoring applications): the data logger sends in real time its measurements to a PC or a Gateway. If a measurement is not received by it, it stores it inside its internal memory and sends it to the receiver on the next communication channel
- **Record / Restitution** (a posteriori monitoring): the data logger records in its embedded memory the measurements it takes. The user can download on the PC all the stored measurements when he wants.



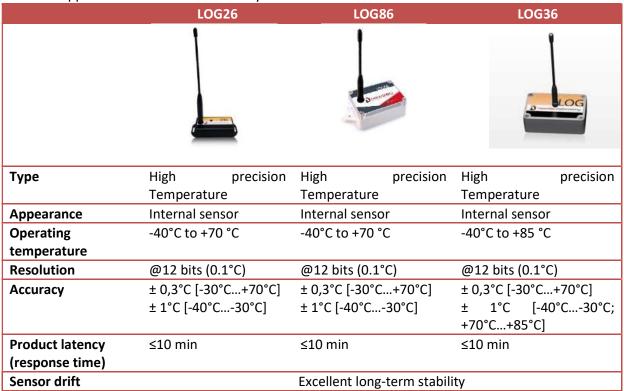
3 Newsteo Data Logger

3.1 Technical characteristics

Preliminary specification – Subjected to change without prior notification.

TBC: To be confirmed **TBD**: To be defined

NA: Not applicableMeasurement accuracy



3.1.1 Casing

Characteristics	LOG26	LOG86	LOG36
IP Level of the Data	IP54	IP65	IP65
Logger			



3.1.2 Power supply / Autonomy

Characteristics	LOG26	LOG86	LOG36
Battery	½ AA lithium Thionyle (included)(included)(included) with plug-iconnector		AA Lithium Thionyl (included) with plug-in connector
Autonomy @ 25°C	Up to 2 years At 25°C with a frequency measures of 10 minutes. Average value which can slightly vary depending on the use. It is given with the product working in non alert mode.	Up to 5 years At 25°C with a frequency measures of 10 minutes. Average value which can slightly vary depending on the use. It is given with the product working in non alert mode.	Up to 3 years At 25°C with a frequency measures of 10 minutes. Average value which can slightly vary depending on the use. It is given with the product working in non alert mode.

Using the product at high temperature highly reduces its autonomy. A LOG26 used at 60° C has autonomy of about 1 month.

3.1.3 Antenna and RF range

Characteristics	LOG26		LOG86			LOG36		
RF connector	SMA connector		SMA connector			SMA connector		
Antenna	½ wave (included)	antenna	½ (incl	wave uded)	antenna	½ (incl	wave uded)	antenna
Radio range	900 meters		900 meters			900 meters		

3.1.4 Other characteristics

Characteristics	LOG26	LOG86	LOG36						
LED	1 bi-color LED	1 bi-color LED	No LED						
Memory Capacity	32 256 measuren	32 256 measurements with date and time							
Time resolution	1s								
Time deviation	+/- 2 min/month	@ 25°C							
Time retention	Main battery life	time.							
	Time kept:								
	- 3	min if the main batter	y is removed, when the						
	n	nain battery is at 3,6V							
	- 1	min if the main batter	y is removed, when the						
	n	nain battery is at 2,2V							
	- T	- Time lost if the main battery is under 2 V.							
Flash life time	Up to 100 000 cyc	cles							
	(meaning 100 year	irs is a measure is done	e every second)						
ILS	ILS integrated for	several functions:							
	 wakeup of the product in hibernate mode 								
	- take o	of a measure outside of	the frequency measure						
	S	et							



3.2 Casing specification

	LOG26			LOG86		LOG36		
				a			LOG	
Features	ABS plast Color: bla	•	Plastic cas	sing ng integrate	es 2	Aluminiur	n casing (4mm)	
	The casin	g integrates 2		fixation on a				
	holes for	fixation on a	or inside a	a parcel.				
	wall or in	side a parcel.						
Dimensions		Flanged lid		Flanged	lid		No flanged lid	
(w/o		included		included			Without antenna	
antenna)		Without		Without		Length	98 mm	
		antenna		antenna		Width	64 mm	
	Length	96 mm	Length	115 mm		Height	34 mm	
	Width	40 mm	Width	58 mm		To have r	nore details on the	
	Height	20 mm	Height	40 mm		casing siz	ze, please refer to	
	To have	more details on	To have	more detail	s on	the Annex	x 3.	
		ng size, please	the casing	g size, please	refer			
	refer to t	he Annex 1.	to the An	nex 2.				
Weight	45g		About 130	0 g		About 250	0 g	
Stickers		on the product:						
	- 1 sticke	r on the top face,	giving the p	product range	<u> </u>			
	- 1 sticke	r on the side, givir	ng the comp	olete product	refer	ence and its	s serial number	

3.3 Starting of the Data Logger

The product is delivered with a battery inserted, in hibernate mode.

The user has to pass a magnet on the product to wake up it and to set it.

The time is set in production.

3.4 Certifications

Products certified for radio use in Europe, on the frequency of 868 MHz (ISM band). For use in another area, check with local authorities.

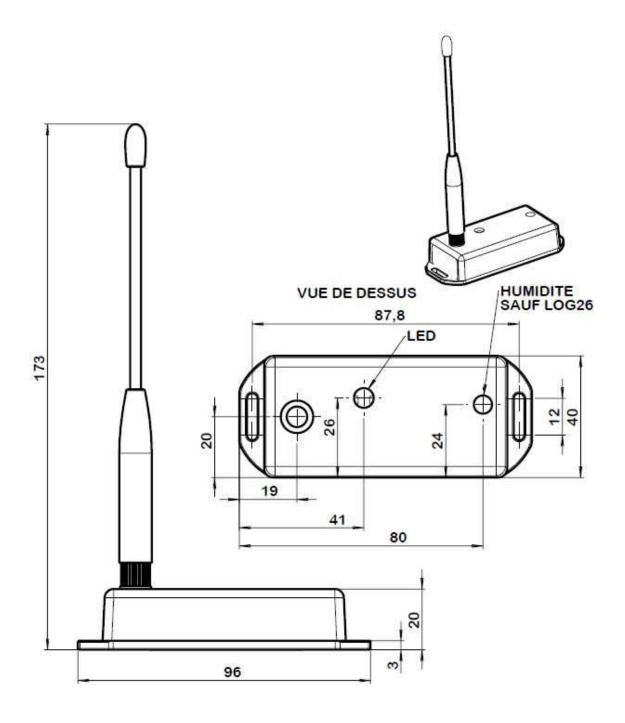
LOG36: EN12830 certified.

The certificates can be downloaded on Newsteo's website: www.newsteo.com.

On order (with additional fees), **Newsteo can provide individual calibrations performed under its COFRAC accreditation.** COFRAC is equivalent to UKAS (UK's National Accreditation Body), DAkkS (Germany), ENAC (Spain), ACCREDIA (Italy).



ANNEX 1: LOG26 DIMENSIONS





Annex 2: LOG86 dimensions





ANNEX 3: LOG36 DIMENSIONS

