ISSUE:
 EEP Proposal

 EEP:
 D2-14-50, 51

 EEP Version:
 2.6

 Date:
 2018-09-27



Submitter:

Submitting EnOcean Alliance Member: Echoflex Solutions Inc

Membership Level: Participant

Contact Information

Contact Person: Loren Parfitt

E-Mail Address: loren@echoflexsolutions.com

Telephone Number:

Date of Submission: 2018-05-24 Start of TWG Review: 2018-08-02 Date of Approval: 2018-09-27

EEP Version: 1.2

Last Change: 2018-07-11 Status: APPROVED

Change History:

Date	Version	Author	Description
2018-05-24	1.0	Loren Parfitt	Initial Document
2018-06-25	1.1	Loren Parfitt	Changed Function to 14
2018-07-11	1.2	Loren Parfitt	Minor Error Corrections

Template Version: 3.1 Page 1 of 5

ISSUE: EEP: EEP Version: Date: EEP Proposal D2-14-50, 51 2.6 2018-09-27



EEP Submission

R-ORG	D2	VLD
FUNC	14	Multi Function Sensors
TYPE	5051	Basic Water Properties Sensor

Description:

The 50 type of this family of profiles will measure Temperature and PH, the 51 type of this family will measure Temperature and Dissolved Oxygen. Other water quality types could be added to this range of types within the multifunction sensors profile in the future likely in the 52-55 range.

Template Version: 3.1 Page 2 of 5

 ISSUE:
 EEP Proposal

 EEP:
 D2-14-50, 51

 EEP Version:
 2.6

 Date:
 2018-09-27



EEP Properties:

Data exchange

Direction: unidirectional

Timeouts: na

Teach-in

Teach-in method: Universal teach-in (UTE)

<u>Security</u>

Encryption supported: no

Security level: na

Template Version: 3.1 Page 3 of 5

 ISSUE:
 EEP Proposal

 EEP:
 D2-14-50, 51

 EEP Version:
 2.6

 Date:
 2018-09-27



Telegram Definition:

Type 50:

direction: From addressing: Broadcast

triggers: Heartbeat and On Change

timing description: 10 seconds minimum, 1000 seconds maximum

Offset	Size	Data	Shortcut	Description	Valid Range	Scale	Unit	trigger
0 9				Temperature	0500	050	°C	0.5 °C Change
	Temperature	TMP9		Enum:				
		. с.прогазаго	5	Status Of Temp Sensor	501510 : Reserved			
					511 : Error			
				PH	0140	014	PH	0.3PH Change
9 8	PH	PH8		Enum:				
				Status Of Sensor	141254 : Reserved			
				255 : Error				

Type 51:

direction: From addressing: Broadcast

triggers: Heartbeat and On Change

timing description: 10 seconds minimum, 1000 seconds maximum

Offset	Size	Data	Shortcut	Description	Valid Range	Scale	Unit	trigger
0 9				Temperature	0500	050	°C	0.5 °C Change
	Temperature	ТМР9	Status Of Temp Sensor	Enum:				
				501510 : Reserved				
					511 : Error			
				Dissolved Oxygen	02000	0200	%	1% Change
9 11	Dissolved	DO11		Enum:				
		Oxygen		Status Of Sensor	20012046 : Reserved			
				2047 : Error				

Template Version: 3.1 Page 4 of 5

EEP Proposal ISSUE: EEP: D2-14-50, 51 EEP Version: 2.6 2018-09-27 Date:



Parameter Overview

The parameter overview table can be added to in the future to support different types with different parameters.

[Parameter Name]						
TYPE	50	51				
TMP9	Х	X				
PH8 (8bits,0-14PH)	Х	-				
DO11 (11 bits, 0-200%)	-	X				

New Parameters:								
Name	ShortCut	Size	Description	Valid Range	Scale	Unit		
Dissolved Oxygen	DO11	11	Dissolved Oxygen (linear)	02000	0200	%		
	DOTT		Status of Sensor	Enum: 20002046 : Reserved 2047 : Error				
				2047 . LITOI				
PH	PH8	8	PH (linear)	0140	014	PH		
	7110		Status of Sensor	Enum: 141254 : Reserved				
				255: Error				

Appendix:

...

...

...