w1t payload description

Extended payload - Version 1.7

The following description is an alteration of the w1e payload description from Ambiductor. See separate document.

By adding water temperature value in the payload, one historical value must be eliminated since maximum length of extended payload cannot exceed 47 bytes. Payload structure can be decoded from Dif/Vif payload sent every 10th telegram.

◼ Payload example

55cb585f 7c f29d0400 120a e0fe575f 8a570400 cd04 cb04 cc04 cd04 ca04 c404 c504 c404 f004 e604 dc04 d604 b905 7905

Explanation:

55cb585f	= Current timestamp
7c	= Status byte
f29d0400	= Current volume
120a	= Water temperature
e0fe575f	= Time of last historical value
8a570400	= Last historical value

cd04 cb04 cc04 cd04 ca04 c404 c504 c404 f004 e604 dc04 d604 b905 7905

= 14 historical values (15 historical values in total).

◼ Parameter list

Parameter	Length	Units	Coding DIF/VIF	Default
Timestamp (current) Unix format	4	Seconds	0x04 0xFF 0x89 0x13	Yes
Status byte	1		0x31 0xFD 0x17	Yes (locked)
Total volume	4	Liters	0x04 0x13	Yes
Other applications				
Other applications				
Other applications				
Water temperature	2	0.010C	0x02 0x59	No
Other applications				
Historical values	8+[(n-1)·2]1	Liters	0x44 0xFF 0x89 0x13 0x44 0x13 0x4D 0x93 0x1E LENGTH_BYTE[2] SPACING_UNIT[3] SPACING[4]	Yes

Spacing control byte is fixed but spacing unit can change automatically depending on what data store period is selected in device configuration. Bit 0-3 describes delta value length and it is fixes to two bytes.

Information about MBus standard functions selection and different options can be found in MBus standard.

■ About Ambiductor

Ambiductor focus in the following areas:

- Energy meters
- Water meters
- Internet-of-Things through LoRa
- Oil meters and meters for industrial liquids
- Smart metering / data collection

Ambiductor is an engineering company with many years of experience in metering technology, automation and remote reading. Our customers experience a high level of service and wide range of application solving.

See instructional videos and assembly guides on www.ambiductor.se/support

Disclaimer!

If there is any inconsistency bet-ween this version and the original document, the original document will prevail.

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