
WMBUS DATA FORMAT

PULSE COUNTER DEVICE (LAN-WMBUS-G2-OOP)



Verify correct device and version

This document applies to the device LAN-WMBUS-G2-OOP with protocol version 10 or 11. There are two ways of finding out the protocol version of the device; either by looking at the label on the device or by looking at the data packets sent out by the device. See chapters **Protocol version in data packets** and **Protocol version in label** below for more information.

Protocol version in data packets

If it is possible to check the information in the data packets sent out by the device, then the protocol version is included in the data field called *A-Field Protocol version*. For more information, see chapter **WMBUS-format**.

Protocol version in label

The protocol version can be found on the label. An example of a label is shown in the figure below and the relevant information is described by LAS.00013870.02.0B, where

- **Manufacturer code:** LAS
- **Serial number:** 00013870
- **Device type:** 02
- **Protocol version:** 0B



WMBUS-format

Art nr.	LAN-WMBUS-G2-OOP				
Version	10 (0x0A) or 11 (0x0B) Note: Version 11 have higher output current, thus working better with yellow LED.				
Information	Packet is sent every 90 seconds (default, can be configured) in T mode				
DR1	Number of pulses on Port 1				
Byte No	Field Name	Content	Info	Byte data	
1	L-Field	Length		0x1A	Linklayer
2	C-Field	SND-NR		0x44	
3	M-Field	Meter Manufacturer code	LAS	0x33	
4	M-Field	Meter Manufacturer code		0x30	
5	A-Field	Meter serial number (LSB)	Example: 0001067	0x67	
6	A-Field	Meter serial number		0x00	
7	A-Field	Meter serial number		0x01	
8	A-Field	Meter serial number (MSB)		0x00	
9	A-Field	Protocol version		0x0B	
10	A-Field	Meter type	Electricity meter	0x02	
11	CI-Field	Short header		0x7A	Networklayer
12	Access no.	Transmission counter	Example: 7	0x07	
13	Status	Device status (error/alarms)	Refer to Table 1 for possible values	0x00	
14	Configuration	Number of encrypted blocks	Example: 3	0x03	
15	Configuration	Encryption		No encryption: 0x00 Encryption mode 5: 0x05	
16	AES-Verify	Encryption Verification		0x2F	DATA blocks
17	AES-Verify	Encryption Verification		0x2F	
18	DR1	DIF	12-digit BCD	0x8E	
19	DR1	VIF	Subunit 1	0x40	
20	DR1	VIF	Extension table	0xFD	
21	DR1	VIF	Dimensionless	0x3A	
22	DR1	Value (LSB)	Example: 112233445566	0x66	
23	DR1	Value		0x55	
24	DR1	Value		0x44	
25	DR1	Value		0x33	
26	DR1	Value		0x22	
27	DR1	Value (MSB)		0x11	

Table 1: Status byte with errors and alerts

Bit	Info
0 (0x01)	X
1 (0x02)	X
2 (0x04)	Low battery
3 (0x08)	Permanent error/sabotage enclosure (optional if sabotage is mounted)
4 (0x10)	X
5 (0x20)	X
6 (0x40)	Sabotage enclosure (optional if sabotage is mounted)
7 (0x80)	X