

WMBUS DATA FORMAT

LEAKAGE DETECTION DEVICE (LAN-WMBUS-G2-LDS)





Verify correct device and version

This document applies to the device LAN-WMBUS-G2-LDS with protocol version 7. 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.

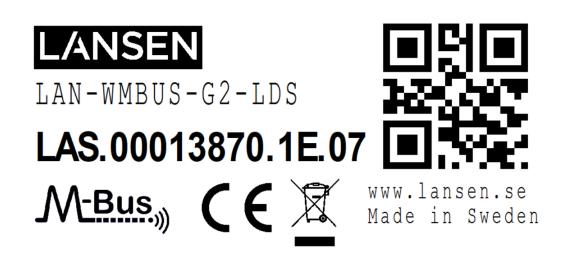
Protocol version in data packets

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.00013870.1E.07, where

- Manufacturer code: LAS
- Serial number: 00013870
- Device type: 1E
- Protocol version: 07





WMBUS-format

Art nr.		LA	AN-WMBUS	S-G2-LDS		
Version 7 (0x07)			(0x07)			
Information Packet is sent			cket is sent e	every 90 seconds (default, can be configured) in T-mode		
DR1				,		
DR2			Error messages			
Byte No	Field Name	Content		Info	Byte data	
1	L-Field	Length				
2	C-Field	SND-NR			0x44	
3	M-Field	Meter Manufacturer code		LAS	0x33	Linklayer
4	M-Field	Meter Manufacturer code			0x30	
5	A-Field	Meter serial number (LSB)		Example: 0001067	0x67	
6	A-Field	Meter serial number Meter serial number			0x00	
7	A-Field				0x01	
8	A-Field	Meter serial number (MSB)			0x00	
9	A-Field	Protocol version			0x0B	
10	A-Field	Meter type		Leakage Sensor	0x1E	
11	CI-Field	Short header			0x7A	
12	Access no.	Transmission counter		Example: 7	0x07	
13	Status	Device status (error/alarms)		Refer to Table 1 for possible values	0x00	Notara aldarra
14	Configuration	Number of encrypted blocks		Example: 3	0x03	Networklayer
15	C	Encryption			No encryption: 0x00	
1)	Configuration				Encryption mode 5: 0x05	
16	AES-Verify	Encryption Verification			0x2F	
17	AES-Verify	Encryption Verification	n		0x2F	
18	DR1	DIF		2-byte integer	0x02	
19	DR1	VIF		Extension table	0xFD	
20	DR1	VIFE		Digital input	0x1B	
21	DR1	Value (LSB) Value (MSB) DIF		Refer to Table 2 for possible values	0x00	
22	DR1				0x00	DATA blocks
23	DR2			2-byte integer	0x02	
24	DR2	VIF		Extension table	0xFD	
25	DR2	VIFE VIFE		Error flags (16-bit)	0x97	
26	DR2				0x1D	
27	DR2	Value (LSB) Value (MSB)		Refer to Table 3 for possible values	0x00	
28	DR2				0x00	

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)	Leakage detected
6 (0x40)	Sabotage enclosure (optional if sabotage is mounted)
7 (0x80)	X

Table 2: Digital input values

Bit	Info
0 (0x01)	Leakage detected on port 1
1 (0x02)	Leakage detected on port 2

Table 3: Error flag values

Bit	Info
0 (0x01)	Sabotage
1 (0x02)	Low battery