

Wireless mbus - 2N® SmartCom PRO decryption configuration

This functionality is available from firmware version 1.7.1 and uses WMBUS C mode. New parameters which are available according to this functionality:

AT^MODE - all the WMBUS modes used on SmartCom

- 1: 868MHz T1
- 3: 868MHz S1
- 8: 868MHz C1
- 11: 868MHz T1 + C1
- 17: 169MHz N1

AT^RF_CHANNEL:

Only for 169MHz:

- 1: 169.406250 MHz (Channel 1a)
- 2: 169.418750 Mhz (Channel 1b)
- 3: 169.431250 MHz (Channel 2a)
- 4: 169.443750 MHz (Channel 2b)
- 5: 169.256250 MHz (Channel 3a)
- 6: 169.458750 MHz (Channel 3b)
- 7: 169.437500 MHz (Channel g)
- 8: 169.412500 MHz (Channel 1)
- 9: 169.437500 MHz (Channel 2)
- 10: 169.462500 MHz (Channel 3)

AT^RF_DATA_RATE:

Only for 169MHz:

- 1: 2.4 kbps (mod index 2), used for channel 2a and 2b
- 2: 4.8 kbps (mod index 0.5), used for channel 1a,1b, 3a and 3b
- 4: 38.4 kbps (4GFSK), used for channel g

AT^PREAMBLE_LEN:

For 169MHz:

- 0: Frame format A, default
- 1: Reserved
- 2: Frame format B

For 868MHz:

- 0: 4 (short) / Frame format A
- 1: 70 (long)/ Frame format A
- 2: 4 (short) / Frame format B (C mode)
- 3: 70 (long)/ Frame format B (C mode)

Switch on decryption:

AT^SCWMBUS="DECRYPT",1

When you need to switch off decryption you just replace number 1 in previous AT command by number 0.

Add a meter:

You need to specify which meter you would like to receive data from by following AT command:

AT^SCWMBUS="DEV_ADD","MAN",XXXXXXXX,A,VER,DEV

where:

- MAN is the three-character meter vender abbreviation
- XXXXXXXX is the serial number of the meter
- A - minimum time interval in seconds between two stored WMBUS records from the meter ($0 \leq A \leq 600$)
- VER is the version parameter of the meter
- DEV is the unique meter identification

Set the decryption key:

AT^SCWMBUS="KEY_ADD",ID,KEY

where:

- ID is the meter identification from the meter table in SmartCom - this table can be checked by AT^SCWMBUS?
- KEY is the decryption key

When all the parameters are set correctly, all the messages are stored in SmartCom in decrypted format.

More product information:

[2N® SmartCom \(Official Website 2N\)](#)

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