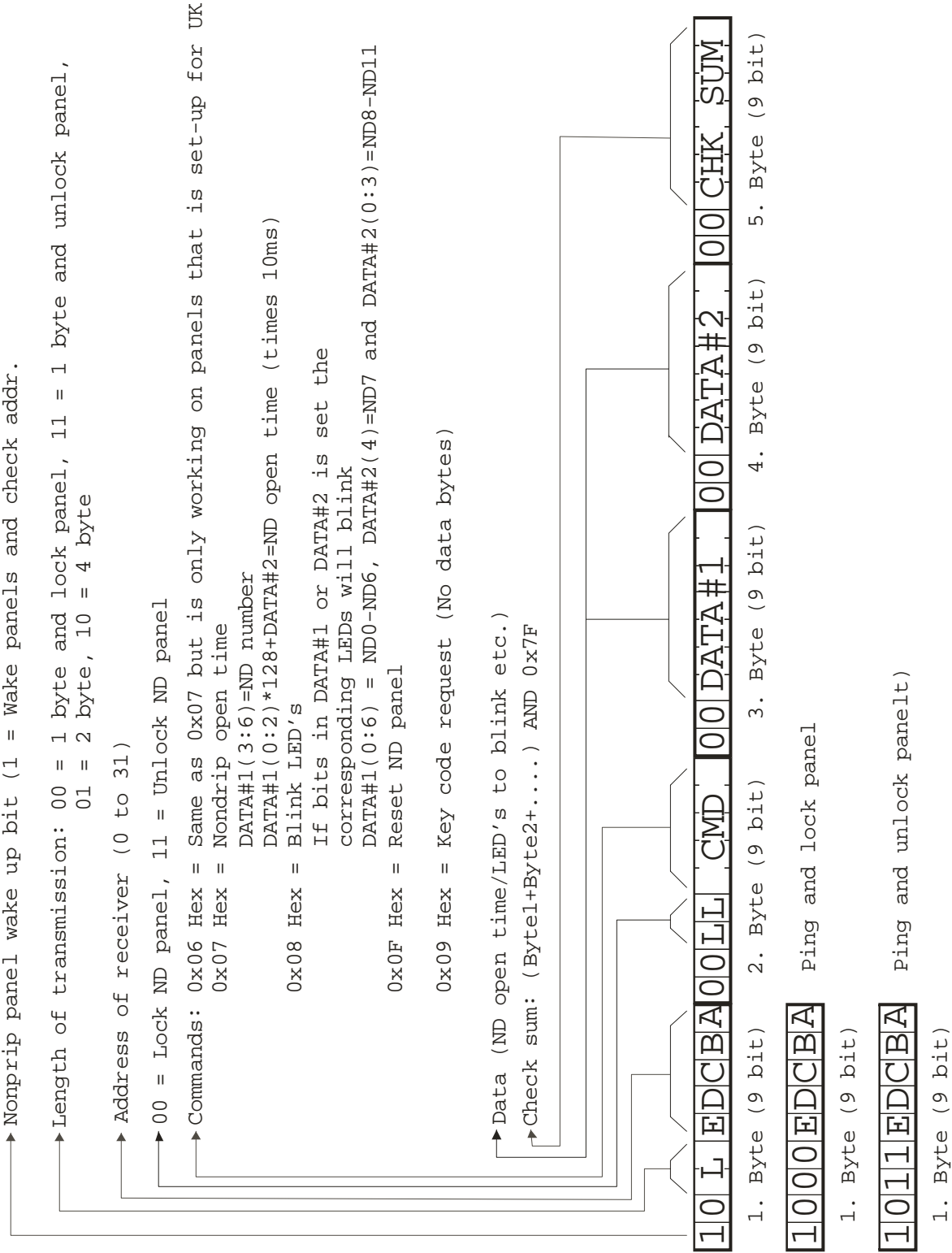
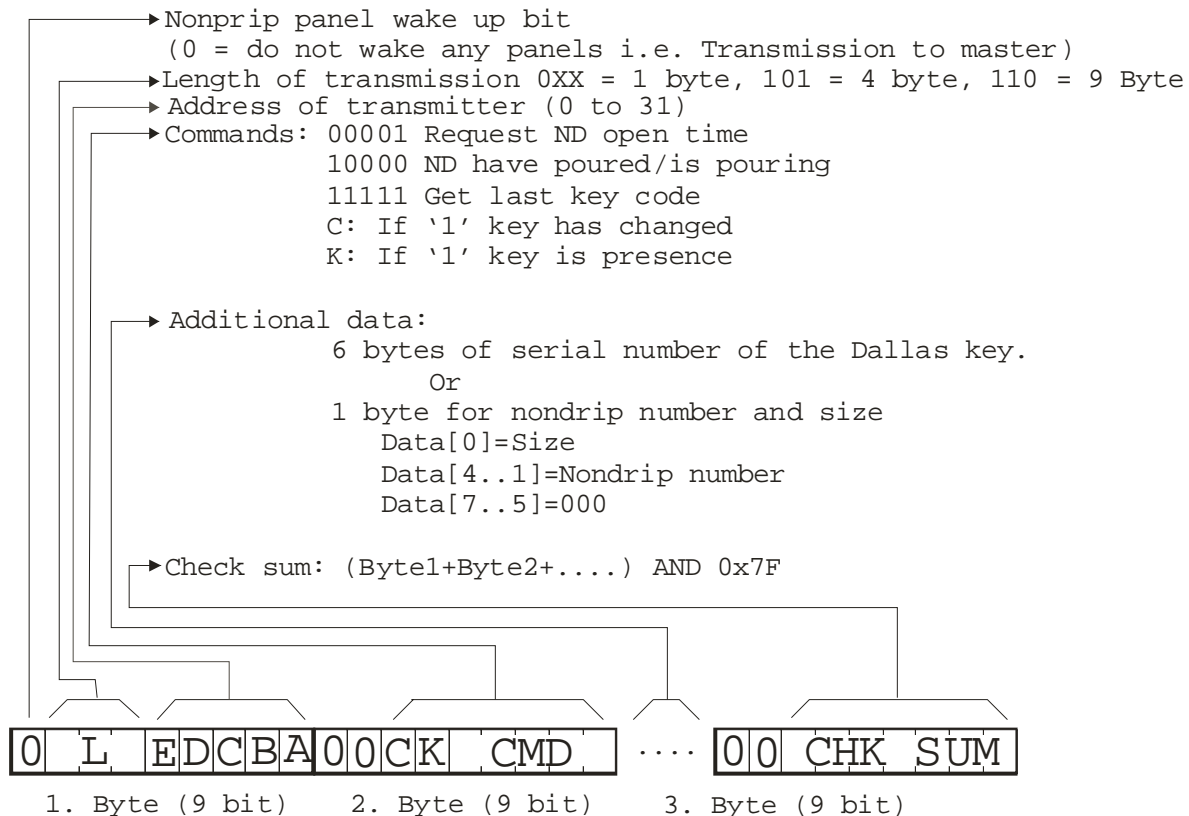


Protocol between Master and ND panels (With two sizes and UK)
9bit, 19200bps, no parity, 1 stop bit.

Commands from Master to ND panels:



Commands from ND panels to Master



OR: Ping return / NOP.



Notes:

- 1) If a panel is locked the LED will be red.
- 2) If a panel is unlocked the panel will be green.
- 3) It is recommended that a command is send to the panels for each 10ms.
- 4) If a command is not received by a panel within 2 seconds it will lock.
- 5) Panels are slaves and will only send a command after having received a command.
- 6) If a panel is locked a *Request ND open time* will not be send from the panel. A ping will be send instead.

England and NWML approval

- 1) Use command 0x06 instead of 0x07 when sending the opening time to the panel. This will insure that only panels that are set up for UK will work.
- 2) Use a control unit with a software version that limits the minimum opening time to 210ms. This will unsure that the measuring chamber will fully empty on a 25ml spout on the product that is covered by the approval.
- 3) The software version has to be easily obtainable by for inspection by the authorities.

Example 1: Communication on a system with 2 panels (no waiter key).

Command from Master

Ping and unlock to panel 1 (LED on panel 1 will go from red to green)

Answer from panel

Ping return from panel 1

Command from Master

Ping and unlock to panel 2 (LED on panel 2 will go from red to green)

Answer from panel

Ping return from panel 2

Command from Master

Ping and unlock to panel 1 (LED will stay green)

Answer from panel

Request open time ND 4 size 1 (A nondrip has been activated)

Command from Master

Opening time to panel 1

Answer from panel

Ping return from panel 1

Command from Master

Ping and unlock to panel 2 (LED will stay green)

Answer from panel

Ping return from panel 2

Command from Master

Ping and unlock to panel 1 (LED will stay green)

Answer from panel

ND 4 size 1 is/has poured on panel 1 (Make registration in Master)

Command from Master

Ping and unlock to panel 2 (LED will stay green)

Answer from panel

Ping return from panel 2

Example 2: Communication on a system with 1 panels and a waiter key.

Command from Master

Ping and lock to panel 1 (LED on panel 1 will stay red)

Answer from panel

Ping return from panel 1 and Key changed

Command from Master

Key code request

Answer from panel

Last key code

Command from Master (Key code approved)

Ping and unlock to panel 1 (LED will go from red to green)

Answer from panel

Ping return from panel 1

Note: Instead of a ping from master to panels *Blink LED's* command can be send to indicate to the waiter witch product(s) he is allowed to pure.