Description of communication protocols supported by scale S200

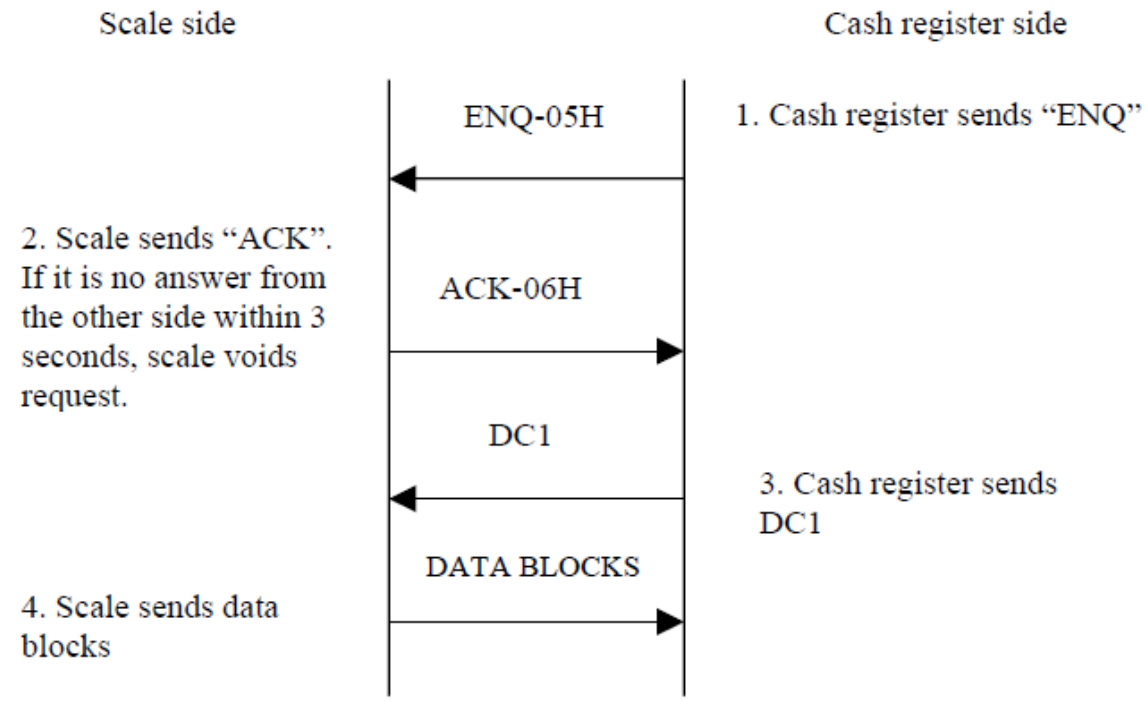
0. CAS protocol

1. The communication agreements

1. BAUD RATE -> 9600
2. DATA BIT -> 8 BIT
3. STOP BIT -> 1 BIT
4. PARITY BIT -> NO
6. DATA FORMAT -> ASCII
7. THE COMMAND DEFINITIONS

„ENQ“ -> 05H
„ACK“ -> 06H
„SOH“ -> 01H
„STX“ -> 02H
„ETX“ -> 03H
„EOT“ -> 04H
„DC1” -> 11H

2. The communication protocol



1. ELICOM protocol

1. The communication agreements

BAUD RATE - 9600
DATA BIT - 8 BIT
STOP BIT - 1 BIT
PARITY BIT - NO

2. The communication protocol

PC AA $_{(16)}$

Scale No weight - BB$_{(16)}$
When weight is stable: 3 bytes + CKS
Example: 2,310kg = 00 23 10 33 $_{(16)}$

Scale is zero with command: CC $_{(16)}$

2. Dibal Protocol

1. The communication agreements

BAUD RATE - 9600
DATA BIT - 8 BIT
STOP BIT - 1 BIT
PARITY BIT - NO

2. The communication protocol

PC	STX
Scale	ACK
PC	@1PU4PU3PU2PU1PU0 CR LF (PUn => digit price/kg
PC	STX
Scale	ACK
PC	10CR LF
Scale	STX
PC	ACK
Scale	PD4PD3PD2PD1PD0 PU4PU3PU2PU1PU0 PX5PX4PX3PX2PX1PX0 0 CR LF

PDn weight sent by the balance
PUn digit price/kg sent by the balance
PXn total digit price sent by the balance

NOTE: When scale is in the following modes: instability weight, zero weight, overload or "negative" weight. The transmission of messages for WEIGHT, PRICE/KG, PRICE TO PAY the scale will replace all characters PDn, PUn, PXn by the character "X"

3. Mettler protocol

Commands

Each command end with <CR><LF>, where

<CR > = 0Dh

<LF> = 0Ah

The other part of the command is ASCII text

Command S – send stable weight value

Command S

Response: S S Weight value Kg

S I – command is not executable, the scale is busy

Example:

Command S

Response S S 0.360 Kg

Command SI – send weight value immediately regardless the stability

Command SI

Response: S S Weight value Kg - stable weight

S D Weight value Kg - unstable weight

S I – command is not executable, the scale is busy

Example:

Command SI

Response S D 0.360 Kg

Command SIR – send weight value immediately and repeat

Command SIR

Response: S S Weight value Kg - stable weight

S D Weight value Kg - unstable weight

S I – command is not executable, the scale is busy

Example:

Command SIR

Response S D 0.360 Kg

- SIR is overwritten by the commands S, SI

Command Z - Zero the scale

Command Z

Response: Z A – zero setting is performed

Z I – command is not executable, the scale is busy

Example:

Command Z

Response Z A

Command ZI – zero immediately

Command ZI- Zero the scale immediately regardless the stability

Response: ZI D – zero is performed under non-stable conditions

ZI S – zero is performed under stable conditions

Z I – command is not executable, the scale is busy

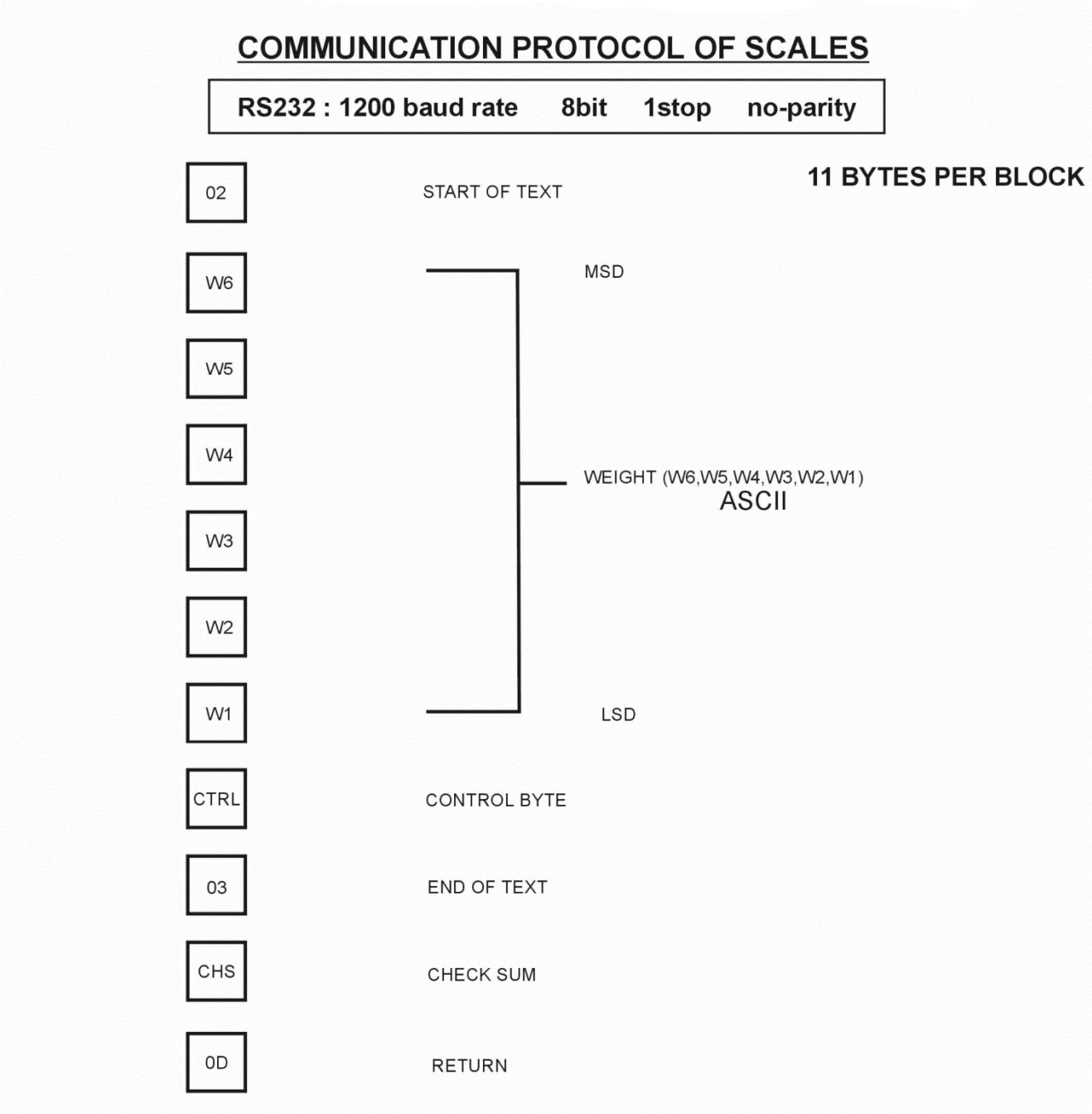
Example:

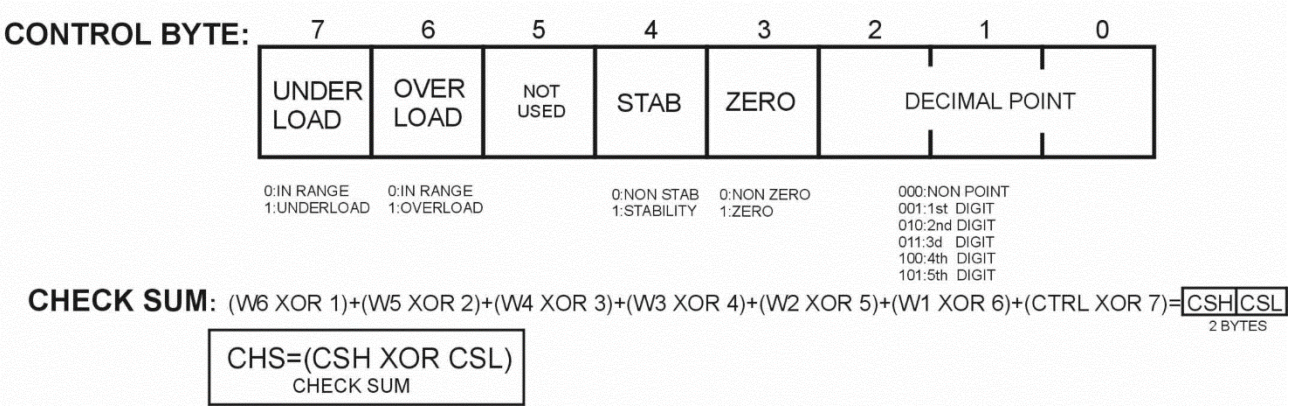
Command Z

Response Z A

4. DELMAC protocol

Note: This protocol is working on speed 1200 baud rate and scale baud settings from scale menu does not take affect





5. WEGA protocol

PC asks by: 00 00 03 (16)

The answer is with 17 bytes: weight 6 bytes, unit price 5 bytes, TOTAL: 6 bytes.

Example: weight 2,430kg, unit price 1,25, TOTAL: 3,04 EUR will be send as:

00 03 04 02 00 00 05 02 01 00 00 04 00 03 00 00 00(16)

The command: 00 00 01 (16) clears receiving buffer of the scale