

一. Serial port settings

1. Press [pcs] until turn on scale.
2. Enter setting of Send mode:press [pcs] to choose,press [zero/tare] to confirm.
 Stb: Stable transmission
 SEr: Continuous transmission (default)
 CLoSE: Do not send
Stb1: after stable send first time
3. Enter setting of "Baud rate":press [pcs] to choose,press [zero/tare] to confirm.
 9600 (default) 4800 2400 1200 600

二. The data format

The data for ASCII code,Each data set consists of 10 digits,First for the start bit, tenth bits stop bits, the middle 8 digits data bits.

三. Communication protocol

(1)The transmitted data is currently weighing instrument display (gross or net). The data of each frame is composed of 12 groups of data. The format is as follows:

Article X bytes	Content and annotation		
1	02(XON) start		
2	+ or - The sign bit		
3	Weighing data	High position	
...	Weighing data	
...	Weighing data	
8	Weighing data	Low position	
9	The number of decimal From left to right (0~4)		
10	Difference or Check	High four digit	Difference or=2+3+.....+8+9
11	Difference or Check	High four digit	
12	03 (XOFF) finish		

Remark 1: Confirm of difference or Check high、low 4 digit:If difference or Check high、low 4 digit ≤ 9 ,add 30h,Be send ASCII code digital, e g : difference or Check high、low 4 digit is 6,after add 30h is 36h;If difference or Check high、low 4 digit ≥ 9 ,add 37h, Be send ASCII code digital, e g:If difference or Check high、low 4 digit is B, after add 37h,42h is Send the ASCII code of B

E g 1: setting Current weight : 123.456kg

start	Symb ol	weight value	decima l point	Check high	Check low	finis h
0x02	0x2B	0x31 0x32 0x33 0x34 0x35 0x36	0x33	0x39	0x33	0x03

Because of: $0x2B+0x31+0x32+0x33+0x34+0x35+0x36+0x33 = 0x193$

so: Check high= $(0x09+0x30)=0x39$ Check low= $(0x03+0x30)=0x33$

E g 2: setting Current weight.: -123.45kg

start	Symb ol	weight value	decima l point	Check high	Check low	finis h
0x02	0x2D	0x30 0x31 0x32 0x33 0x34 0x35	0x32	0x38	0x45	0x03

Because of : $0x2D+0x30+0x31+0x32+0x33+0x34+0x35+0x32 = 0x18E$

so: Check high= $(0x08+0x30)=0x38$ Check low= $(0x0E+0x37)=0x45$

(2) . 8 byte transmit mode (After the stability of transmission)

After stable sending 7 byte of ASCII code weight (include decimal point) and return(0DH), Return to zero can be sent the next data.

E g 2-1:

Weight : 123.456

Send data frame:

Hexa decim al	31	32	33	2E	34	35	36	0D
Deci mal syste m	1	2	3	.	4	5	6	

E g2-2:

weight: 43.21

Send data frame:

Hexa decim al	20	20	34	33	2E	32	31	0D
Deci mal syste m			4	3	.	2	1	