

## Random code decrypt

### 一、request:

1、 Only by press [PST 22] to decrypt random code.

一、 1. [PST 22] random code to decrypt password for calibration

Step	Operation	Display	notes
1	press <b>【set】</b>	<b>PSt 00</b>	
2	press <b>【22】</b>	<b>PSt 22</b>	Select parameter/function number 22
3	press <b>【enter】</b>	<b>S-CodE</b>	Input set password
4	press <b>【111111】</b>	<b>S- - - - -</b>	input “111111”
5	press <b>【enter】</b>	<b>r*****</b>	Tell that number to scale company, waiting password, then press <b>【enter】</b>
6	press <b>【enter】</b>	<b>L*****</b>	Input to decrypt
7	press <b>【enter】</b>	<b>PASS</b>	Pass means success, <b>Err 16 means wrong</b>

Random code check way:

Random code : if r=632563; first one is 7, second is 6...sixth is 2.

way:

first step:  $r+632563=765432+ 632563= 1397995$ , if more than 6 numbers, then just take last 6 numbers, means 397995.

Second step:

Change position of left first number and left fourth number **997395**

Change position of left second number and left sixth number **997395**

Change position of left third number and left fifth number **997395**

Third step

959379 and 367587 xor or bit different, if final number more than 6 bits, choose last 6 bit, then password is 735344

## 二、PC communication parameters change

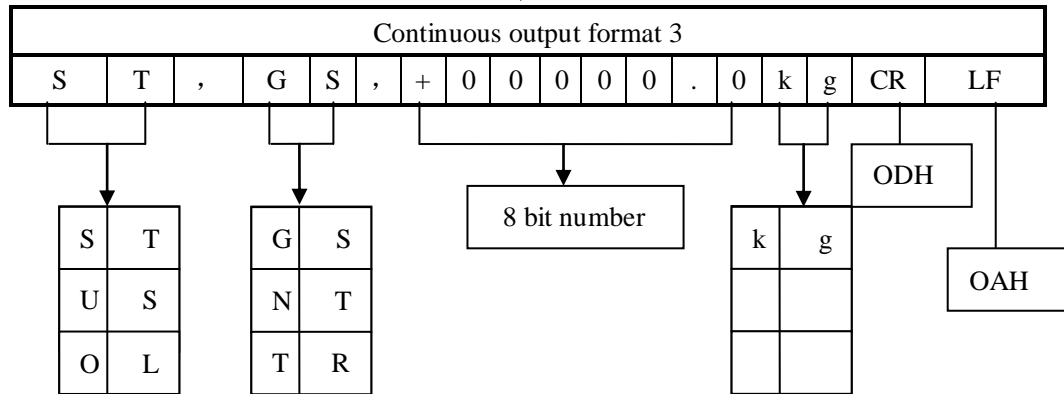
By pst 22 decrypt the password, then to PST01.

## 三、customize PC communication protocol

Indicator options :TF = 7

Protocol as below:

Each byte of data consists of 10 bits, the first bit is the start bit, the tenth bit is the stop bit, and the middle 8 bits are the data bit and the check bit;



Header1	Header2
Header 1	
ST	(Stable)
US	(Unstable)
OL	(Over Load)
Header 2	
GS	(Gross data)
NT	(Net data)
TR	(Tare data)

Note 1: the weight data is encrypted, and the encryption process is as follows:

The current instrument net weight is: 58810 (excluding decimal point, for example, it is still treated as 800000 in encryption operation below 8000.00)

Step 1 encryption:  $58810 + 221080 = 279890$

Step 2 encryption:  $279890 \text{ (XOR) } 224488 = 469434$

The final value sent is 469434

Note 2: due to the above coding, there is overflow. When the net weight of the instrument is more than 800000, the instrument stops sending the weight.

Example: instrument display 0.0

Received by upper computer: St, GS, + 01316.8kg

indicator display 2998

Received by upper computer: St, GS, + 0001958kg