

Unique Scales Cloud Scale Communication protocol V1.4

1、revise records

修订版本	修改内容	修订人	日期
V1.0	全新制定	杨先文	2016.8.23
V1.1	1、修改接收和发送都变成11个字节 2、在秤发送的数据中将6-8位改成加密的阻抗值（兼容加密和不加密的APP使用） 3、在秤接收的数据中增加1为预留位	杨先文	2016.9.8
V1.2	1、修改能够接收并显示手机发下来的用户组	杨先文	2016.10.15
V1.3	1、扩充厨房秤单位	杨先文	2016.11.12
V1.4	1、增加:抱婴模式	杨先文	2016.11.28

2、Serial asynchronous communication UART, Baud rate 4800pbs

3、Format: data sending from Scale to Bluetooth

byte	value	Description
1	uint8	Device: CF stands for Body Fat Scales, CE for Bathroom Scale, CB for Baby Scale, CA for Kitchen Scale
2-3	uint16	The first body impedance, accuracy 0.1 (Byte2 for low byte, Byte3 for high byte)
4-5	uint16	Weight Unit: KG (for Body Fat Scales baby scales and Bathroom Scales) Weight Unit: g (for kitchen Scales) Accuracy: 0.01 (for Body Fat Scales baby scales and Bathroom Scales) Accuracy: 1 (for kitchen Scales) Byte4 for low byte, Byte5 for high byte
6-8	uint8	Encryption Body Impedance, if no value, fill in 0 Byte6 for low byte, Byte7 for middle byte, Byte8 for high byte
9	uint8	Unit (00: for KG 01 for LB 02: for ST 03 for斤 04: for g 05 for lb:oz 06: for oz 07 for ml(water) 08: for ml (milk))
10	uint8	data type (00: Locked data 01: Transmitting Data 02: Overloaded 35: Shut Down 36: do not calculate Body Age, it is a locked data (Other data received in Byte 10 will be calculated into body age) 20: Means group no.P0 21: Means group no.P1 22: Means group no.P2 23: Means group no.P3 24: Means group no.P4 25: Means group no.P5

11	uint8	XOR check, stand for Byte1-byte10 XOR checksum
----	-------	--

Example: FD 34 00 00 00 00 00 00 00 00 C9

byte1 : FD: stands for data send from phone to scale

byte2: 34: stands for calibration command

Byte3: 00: stands for unit switch to KG

Byte4: 00: User group 0

Byte5-byte10: reserved byte: (fill in 00)

Byte11: C9 stand for Byte1-byte9 XOR checksum

5、 Notice

- 1. Data show in Example is all in hexadecimal
- 2. If there is valid data, fill in 0
- 3. All data are little endian data

-----END-----