



Remote Display **RDS**

User Manual

v.201602

Value Each Gram

Before Use

1.1 Safety precautions



WARNING!

▲ Do not use RDS remote display in hazardous area! Do not use it within areas classified as hazardous division 1/2 or zone 0/1/2/21/22 because of combustible or explosive atmospheres.



▲ Never immerse it in corrosive chemical liquid.

▲ Static sensitive device, it must be handled only by qualified technicians. Improper handling may damage the circuit card and the device, which is not covered by the warranty.



DANGER!

Electric shock hazard!

▲ Make sure the display is grounded well.

▲ Always unplug AC/DC adapter before performing any service work on the display! And wait for at least 30 seconds before any operation on it.



DISPOSAL

In conformance with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), this device may not be disposed of in domestic waste. This also applies to countries outside the EU as per their specific regulations.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this indicator.

Should this indicator be passed on to other parties (for private or professional use), the content of this regulation must also be related.

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1. Technical Specifications

Model	RDS
Enclosure Type	Aluminum
Product Dimension	480 x 110 x 40mm
Digits Height	3" LED x 6 (76.2mm)
Power Source	110V - 13V0.7Ah or 220V – 13V/0.7Ah
Working Protocols	Mettler Toledo*, Cardinal*, CAS*, HBM*, AND*, GSE, Ricelake*, etc.
Operating Temperature	-10°C~40°C
Storage Temperature	-25°C~55°C
Relative humidity	85%Rh non-condensing
Protection	IP54
Weight	2.8Kg

2. Model Identification

Model: RDS- A - UK 0 0
Corresponding: A B C D E

A = Main model name

B = Enclosure: -A (or none): Aluminum
 -S: Steel

C = Plug type, examples:

- | |
|------------------------|
| AU = Australia Type |
| CN = China Type |
| EU = EU Type |
| US = USA Type |
| SA = South Africa Type |
| UK = UK Type |

D = Pending

E = Pending

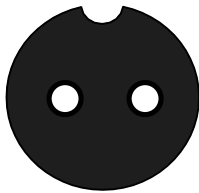
3. Packing List

After the weighing terminal received, please open the box carefully and check the following items included:

- RDS scoreboard x 1
- Connecting cables x 1
- Manual x 1
- Other parts depend

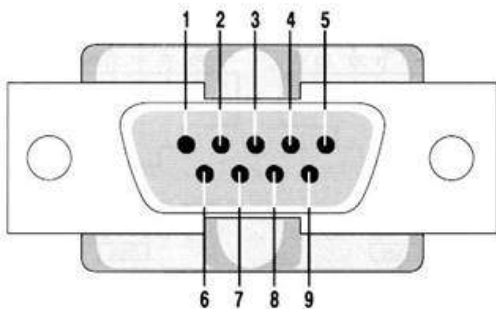
4. Connecting

For 2-pins connector



Pin1	GND (black)
Pin2	RX (red)

For 9-pins DB9 connector



Pin2	RX (red)
Pin5	GND (black)

5. Operation

Connect the RS232 cable firstly between the indicator and the RDS display, as above figures, and then plug the power cable, it will detect the baud rate and protocols automatically, if it detects the correct baud rate and protocol, it will display the same weight as the indicator simultaneously; if the data is incompatible with the protocols of RDS, it will display **No Signal** or **Error**

6. Protocols List

It can work with the below protocols, if your protocol is not in the list, you can send us your data format (in hex) of below weight:

- Positive with decimal point, eg.: 20.00kg (in hex)
- Positive without decimal point, eg.: 20kg (in hex)
- Negative with decimal point, eg.: -20.00kg (in hex)
- Negative without decimal point, eg.: -20kg (in hex)

A. End with *cr lf* (Hex = 0D 0A)

Moorange K3 K5

Protocol 1

ST,GS 87,g (hex format 53 54 2C 47 53 20 20 20 20 20 20 20 38 37 2C 67 20 0D 0A)

Protocol 2

ST,GS, 87g (hex format 53 54 2C 47 53 2C 20 20 20 20 20 20 38 37 67 20 0D 0A)

TSCALE*

S	T	,	G	S	-/											k	g	CR	LF
---	---	---	---	---	----	--	--	--	--	--	--	--	--	--	--	---	---	----	----

S	T	,	G	S	,	-/											k	g	CR	LF
---	---	---	---	---	---	----	--	--	--	--	--	--	--	--	--	--	---	---	----	----

S	T	,	G	S	-/												k	g	,	CR	LF
---	---	---	---	---	----	--	--	--	--	--	--	--	--	--	--	--	---	---	---	----	----

S	T	,	G	S	,	-/											k	g	,	CR	LF
---	---	---	---	---	---	----	--	--	--	--	--	--	--	--	--	--	---	---	---	----	----

DINI ARGEO*

- 10.0kg (hex= 53 54 2C 47 53 2C 20 20 20 20 2D 31 30 2E 30 2C 6B 67 0D 0A)
- 83kg (hex= 53 54 2C 47 53 2C 20 20 20 20 20 2D 38 33 2C 6B 67 0D 0A)
- 83.5kg (hex= 53 54 2C 47 53 2C 20 20 20 20 2D 38 33 2E 35 2C 6B 67 0D 0A)
- 78.1kg (hex= 53 54 2C 47 53 2C 20 20 20 20 37 38 2E 31 2C 6B 67 0D 0A)

Others

- 1. ST,NT,+123.456,Kg,<CR>,<LF>
- 2.

3.12kg/lb	S	T	,	G	S	<SP>	<SP>	<SP>	<SP>	3	.	1	2	,	k	g	<CR>	<LF>
-3.12kg/lb	U	S	,	G	S	-	<SP>	<SP>	<SP>	3	.	1	2	,	k	g	<CR>	<LF>
Net = 3.12kg/lb	U	S	,	N	T	<SP>	<SP>	<SP>	<SP>	3	.	1	2	,	k	g	<CR>	<LF>
Net = 3.12kg/lb	S	T	,	N	T	<SP>	<SP>	<SP>	<SP>	3	.	1	2	,	k	g	<CR>	<LF>

- 3.

0.0kg/lb	S	T	,	G	S	,	+	0	0	0	0	0	.	0	k	g	<CR>	<LF>
199.01kg/lb	U	S	,	G	S	,	+	0	1	9	9	.	0	1	k	g	<CR>	<LF>
Net=-589kg/lb	S	T	,	N	T	,	-	0	0	0	0	5	8	9	k	g	<CR>	<LF>
Net=-4578.23kg/lb	U	S	,	N	T	,	-	4	5	7	8	.	2	3	k	g	<CR>	<LF>

- 4.

0.00kg/lb	S	T	,	G	S	,	+	<SP>	<SP>	<SP>	0	.	0	0	k	g	<CR>	<LF>
-553.2kg/lb	U	S	,	G	S	,	-	<SP>	<SP>	5	5	3	.	2	k	g	<CR>	<LF>
Net=4562kg/lb	S	T	,	N	T	,	+	<SP>	<SP>	<SP>	4	5	6	2	k	g	<CR>	<LF>
Net=-2990.3kg/lb	U	S	,	N	T	,	-	<SP>	2	9	9	0	.	3	k	g	<CR>	<LF>

- 5.

0.0g	S	T	,	G	S	,	+	<SP>	<SP>	<SP>	<SP>	0	.	0	g	<CR>	<LF>
28894g	U	S	,	G	S	,	+	<SP>	<SP>	2	8	8	9	4	g	<CR>	<LF>
Net=9873g	S	T	,	N	T	,	+	<SP>	<SP>	<SP>	9	8	7	3	g	<CR>	<LF>
Net=-200g	U	S	,	N	T	,	-	<SP>	<SP>	<SP>	<SP>	2	0	0	g	<CR>	<LF>

6.

0.000kg/lb	0	.	0	0	0	<CR>	<LF>		
100.000kg/lb	1	0	0	.	0	0	0	<CR>	<LF>
-99.999kg/lb	-	1	9	2	.	9	9	<CR>	<LF>
0kg/lb	0	<CR>	<LF>						
950kg/lb	9	5	0	<CR>	<LF>				
50000kg/lb	5	0	0	0	0	<CR>	<LF>		

B End with cr (Hex = 0D)

Bilanciai* BT800

3840kg:
 + 3840 (hex= 2B 20 20 20 33 38 34 30 0D)
 -3840kg:
 - 3840 (hex= 2D 20 20 20 33 38 34 30 0D)
 3.84kg:
 + 3.840 (hex= 2B 20 20 33 2E 38 34 30 0D)
 -3.84kg:
 - 3.840 (hex= 2D 20 20 33 2E 38 34 30 0D)

CARDINAL*

36335kg (hex= 20 20 33 36 33 33 35 20 4B 47 20 47 20 20 20 0D)
 -36335kg (hex= 2D 20 33 36 33 33 35 20 4B 47 20 47 20 4D 4F 20 0D)

C Start with <STX> (Hex= 02), End with cr lf (Hex= 0D 0A)

TOLEDO*

Z3 0 7480 0000 (hex= 02 7A 33 20 20 30 37 34 38 30 20 30 30 30 30 0D 0A)

LINEAR* PM02

1500kg (hex= 02 20 20 20 20 20 31 35 30 30 0D 0A)
 -750kg (hex= 02 20 20 20 20 20 2D 37 35 30 0D 0A)

RICE LAKE*

<2><P><W7.><U><M><S><CR><LF>

D Start with <STX> (Hex= 02), End with cr (Hex= 0D)

Moorange Protocol 3

87g (hex= 02 2A 28 21 20 20 20 20 38 37 20 20 20 20 30 0D)

NOBEL* AST3IS

1kg
 _H000001 (hex= 02 48 30 30 30 30 31 0D)
 -1kg
 _H-00001 (hex= 02 48 2D 30 30 30 31 0D)

E Start with <STX> (Hex= 02), End with <EXT> (Hex= 03)

Rinstrum

(hex= 02 2D 20 20 20 20 32 30 4E 03)

YAOHUA* D10

5.4Kg
 +00005411B (hex= 02 2B 30 30 30 30 35 34 31 31 42 03)

Others:

3.12kg/lb	<STX>	<SP>	<SP>	<SP>	<SP>	3	.	1	2	<ETX>
-3.12kg/lb	<STX>	-	<SP>	<SP>	<SP>	3	.	1	2	<ETX>

3.12kg/lb	<STX>	<SP>	<SP>	<SP>	<SP>	3	.	1	2	k	g	<ETX>
-3.12kg/lb	<STX>	-	<SP>	<SP>	<SP>	3	.	1	2	k	g	<ETX>

2345.99kg/lb	<STX>	<SP>	2	3	4	5	.	9	9	<SP>	k	g	<SP>	<SP>	<SP>	<ETX>
-12345.99kg/lb	<STX>	-	2	3	4	5	.	9	9	<SP>	k	g	<SP>	<SP>	<SP>	<ETX>
0.00kg/lb	<STX>	<SP>	<SP>	<SP>	<SP>	0	.	0	0	<SP>	k	g	<SP>	<SP>	<SP>	<ETX>

(hex= 02 20 33 38 35 32 30 03)

F Start with = (Hex= 3D)

HIWEIGH X1 X3 X5 X6 X8 | Moorange K7

586g
 =685 (hex= 3D 36 38 35 20 20 20 20)

YAOHUA* A12

0.000g
 =000.000 (hex= 3D 30 30 30 2E 30 30 30)

0.001g
 =-0.001 (hex= 3D 31 30 30 2E 30 30 2D)

YAOHUA* D2+
 1.36kg
 =63.10000 (hex= 3D 36 33 2E 31 30 30 30 30)

G End with If (Hex= 0A)

21.970 23 31 20 32 31 2E 39 37 30 30 0A
 -0.300 23 31 2D 30 30 2E 33 31 30 30 0A

H Others

0.0	^	M	0	2	0	3		0	.	0				
330602.9	^	M	0	4	0	3		3	3	0	6	0	2	. 9
24.33	^	M	0	4	0	1		2	4	.	3	3		
-18.5	^	M	0	2	0	1	-	1	8	.	5			
-0.8	^	M	0	4	0	9	-	0	.	8				
-2566.99	^	M	0	2	0	9	-	2	5	6	6	.	9	9

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v.201602

RDS

User Manual



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