

<b>Ref. No: Scale with RF</b>	TECHNICAL DESCRIPTION	<b>BONSO</b>
<b>Issued Date: Otc.6.2008</b>		<b>Rev. Date :Otc.6.2008</b>

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**BONSO ELECTRONICS LTD.**

## **1. GENERAL DESCRIPTION**

The 840-10 RS Scale is a self-contained transceiver unit with integral antenna intended for use as a general weight tool. It is designed to operate on all 10 channels allocated by the FCC. The useable range, while dependent upon terrain and other radio propagation principles, is typically ten meters. The 840-10 uses the maximum transmit power allowed to help ensure the maximum communication range.

Features include: 10 Channels, LCD Display. Six AAA Ni-MH batteries that are readily available in retail outlets supply operating power. An automatic power savings feature allows the typical standby battery life to extend to more than 4days.

## **2. FREQUENCY DETERMINING CIRCUITS**

The fundamental frequency for both the transmitter and the receiver local oscillators are controlled by CC1100. The frequency of operation is Reference operating at crystal 26MHz(X2).

Automatic Frequency Compensation

(AFC) can be used to align the frequency synthesizer to the received center frequency

## **4.CHANNELES SETING**

Channel 1 setting-----Short CH1  
Channel 2 setting-----Short CH2  
Channel 3 setting-----Short CH3  
Channel 4 setting-----Short CH4  
Channel 5 setting-----Short CH5  
Channel 6 setting-----Short CH6  
Channel 7 setting-----Short CH7  
Channel 8 setting-----Short CH8  
Channel 9 setting-----Short CH9  
Channel 10 setting-----Short CH10

## **5. TX Circuits**

Weight data pass through CN1 to Q2 , After reversed by Q2 sent to MCU, The MCU process it and send data to CC1100 modulate and CC1100 RF\_P PIN send out RF signal to HPF then via antenna transmit it out.

If weight information no change over 2 minutes, Transmitter will stop transmission automaticlly.