

Ref. No: Scale with RF	TECHNICAL DESCRIPTION	BONSO
Issued Date: Otc.6.2008		Rev. Date :Otc.6.2008

CIRCUIT DESCRIPTION

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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 automatically.