SALTER Brecknell

RD-*Series*
Remote Display
RD-2/RD-4

Setup & Operation Manual

Revision 1.1
March 11 2003

Electromagnetic Compatibility Statement for North America

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

The RD Series Remote Displays currently consist of two size LED displays:

RD-2	2 1/2" High LED display
RD-4	4" High LED display

The RD Series Remote displays are housed in a NEMA 4X stainless steel enclosure. A wall mount bracket and sun-shade are standard.
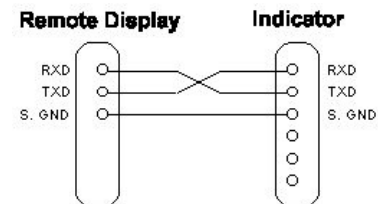
SETUP

Setup is very easy and can be configured automatically or manually.

1. Automatic setup – RS-232

Set the output from your digital indicator to <u>continuous</u> and have one of the following serial protocols set in the indicator:
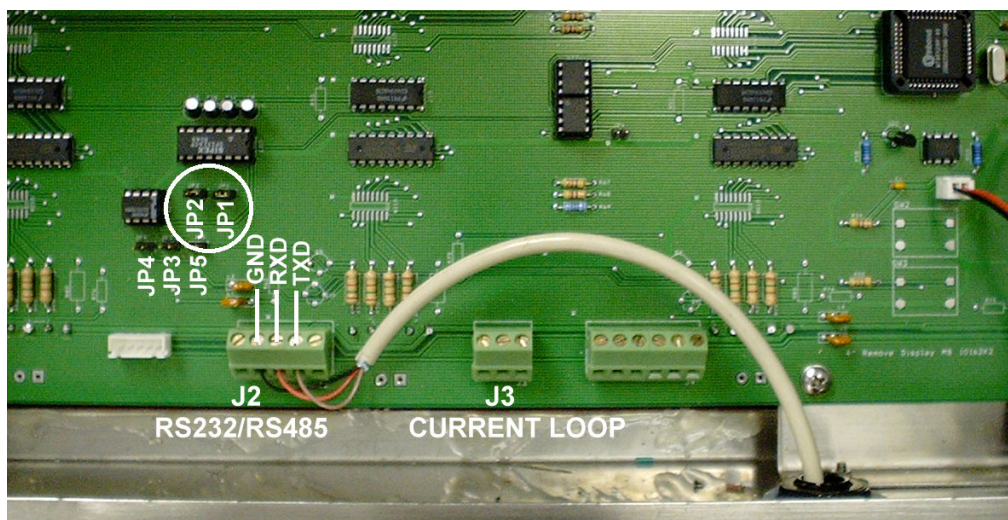
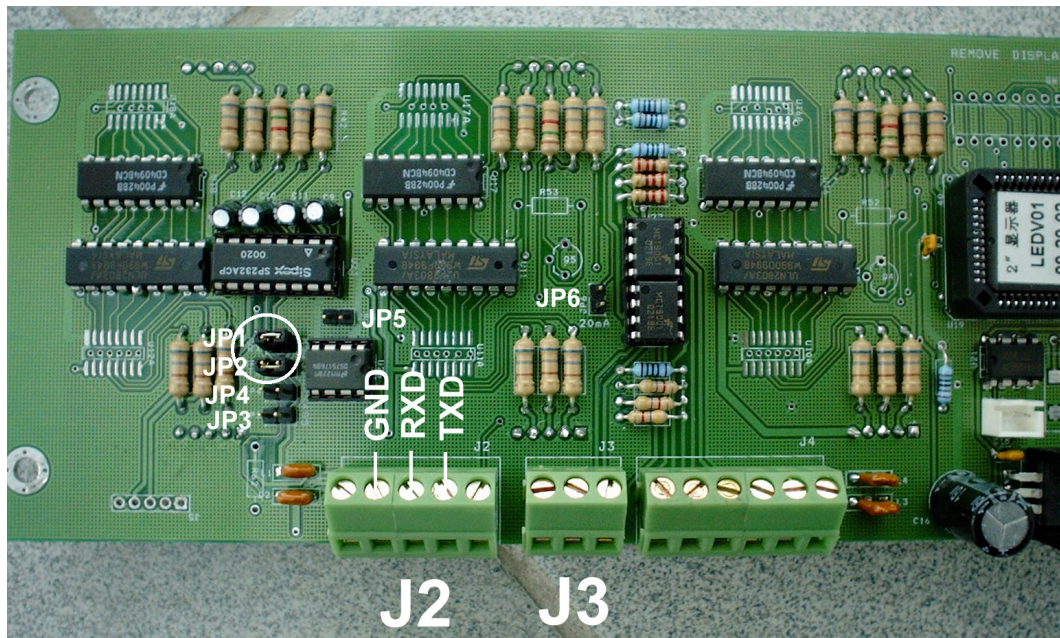| BAUD RATE	BITS/PARITY	BITS/PARITY
1200	8, N	7, Odd or even
2400	8, N	7, Odd or even
4800	8, N	7, Odd or even
9600	8, N	7, Odd or even
19200	8, N	7, Odd or even

Remove the back cover. Connect the serial cable to terminal J2.
For 4" remote display insert jumpers on JP1 & JP2. Leave JP3, JP4 and JP5 open.
For 2.5" remote display insert jumpers on JP1 & JP2. Leave JP3, JP4, JP5 and JP6 open.

RD-4 -4" remote RS232 connections

RD-2 2" remote RS232 connections

Power down the RD Series Remote Display. Remove the two screws holding the setup switch cover located on the center of the back cover. Slide the switch to the left position for setup. Power up the RD Series Remote Display. Power up your digital indicator. The RD Series Remote Display will begin cycling through the possible combinations of baud rate, bits and parity. When the configuration from your indicator is found, the RD Series Remote Display will show SET and begin to operate. Slide the configuration switch to the right position and replace the cover and two screws. Attach the rear cover.

2. Manual setup – Applies to RS232, RS0485 and Current Loop

If you want to set the baud rate/bits/parity manually in the RD Series Remote Display, power down the unit. Remove the two screws holding the setup switch cover located on the center of the back cover. Slide the switch to the left position for setup. Power up the RD Series Remote Display. Watch the display begin cycling through the possible combinations of baud rate, bits and parity. Wait until the desired baud rate and bit/parity combination is displayed. Immediately power down the remote display to capture those settings. Slide the configuration switch to the right position and replace the cover and two screws. Connect your indicator as shown above. Power up the indicator and make sure it is operating properly and displaying weight. Power up the RD Series Remote Display. Both your indicator and the remote display should be operating properly. If not, retry the procedure or try the automatic procedure as outlined above.
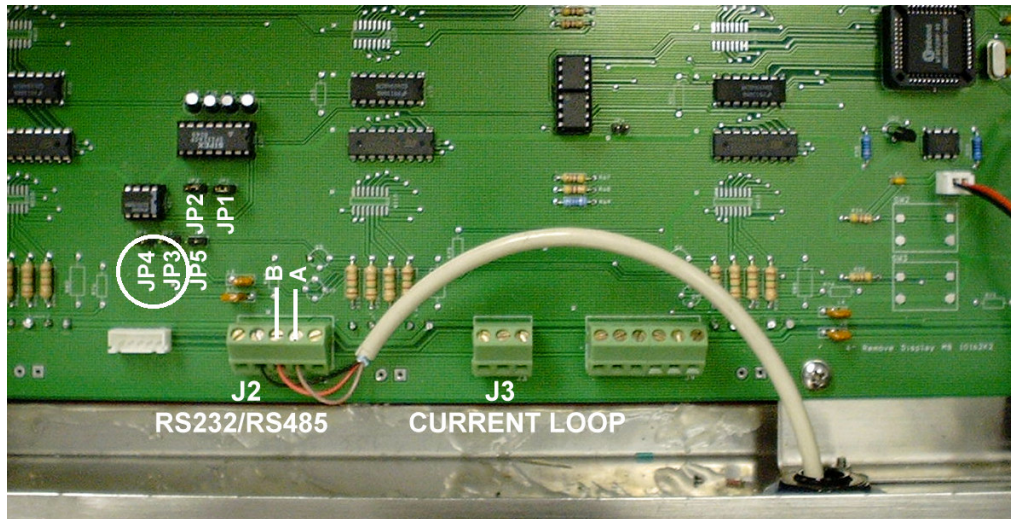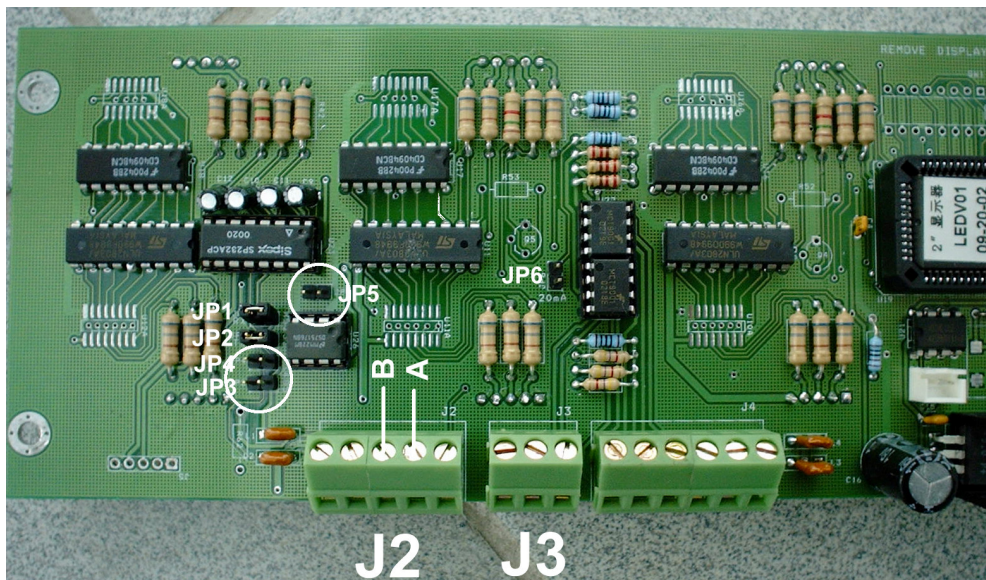
3. **Automatic setup – RS-485**
RD-4 remote display, apply the jumpers to JP3 and JP4, leave JP1, JP2 and JP5 open.
RD-2 remote display – apply jumpers to JP3, JP4, and JP5. Leave JP1, JP2 and JP6 open.
Connect the cable as shown below to J3.

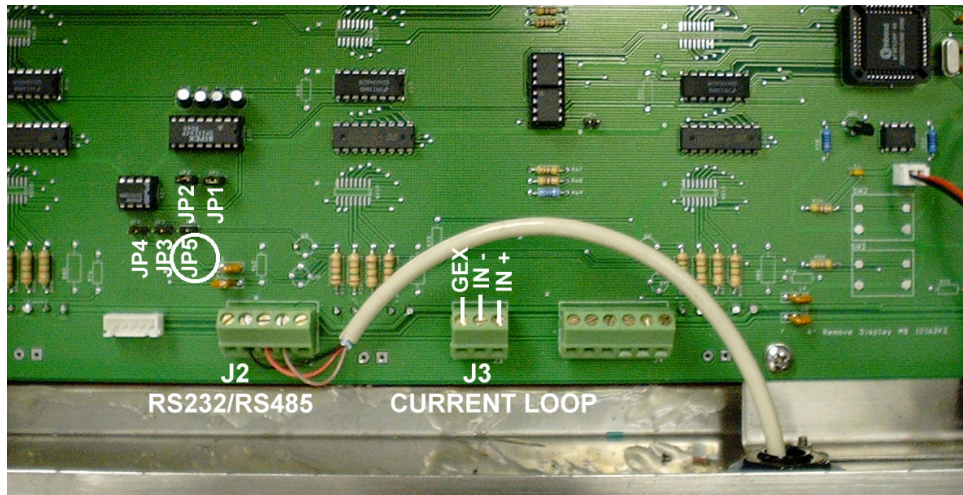RD-4- 4" remote RS485 connections

RD-4- 2" remote RS485 connections

Power down the RD Series Remote Display. Remove the two screws holding the setup switch cover located on the center of the back cover. Slide the switch to the left position for setup. Power up the RD Series Remote Display. Power up your digital indicator. The RD Series Remote Display will begin cycling through the possible combinations of baud rate, bits and parity. When the configuration from your indicator is found, the RD Series Remote Display will show SET and begin to operate. Slide the configuration switch to the right position and replace the cover and two screws. Attach the rear cover.
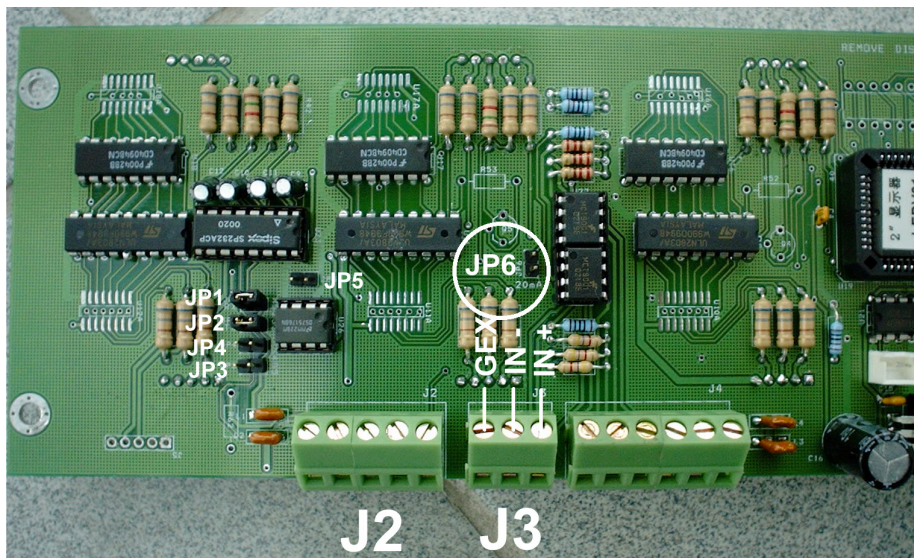
4. **Automatic setup – CURRENT LOOP**

RD-4 remote display, jump JP5 and leave JP1 – JP4 open.
RD-2 remote display jump JP6 and leave JP1 – JP5 open. Cable connects to J3.

RD-4- 4" remote Current Loop connections

RD-2- 2" remote Current Loop connections

Power down the RD Series Remote Display. Remove the two screws holding the setup switch cover located on the center of the back cover. Slide the switch to the left position for setup. Power up the RD Series Remote Display. Power up your digital indicator. The RD Series Remote Display will begin cycling through the possible combinations of baud rate, bits and parity. When the configuration from your indicator is found, the RD Series Remote Display will show SET and begin to operate. Slide the configuration switch to the right position and replace the cover and two screws. Attach the rear cover.

SPECIFICATIONS:

POWER CONSUMPTION

Max – 910 mA (all segments on)
Typ – 300 mA
Min – 100 mA (all segments off)

ENVIRONMENTAL

Operating Temperature   −10° to +40° C
Storage Temperature   -25° to +70° C

Dimensions: