

TECHNICAL DISCRPTION OF BT10-02 TRANSMITTER AND DSP1000 (W110-02) RECEIVER PAGE 1 OF 2

DATA FROM THE BT10 IS TRANSMITTED CONTINUOUSLY AND UPDATED ONCE PER SECOND.

DATA OUTPUT IS ASCII AT 9600 BAUD, ONE STOP BIT, 8 DATA BITS, NO PARITY

DATA OUTPUTS AS FOLLOWS: (TOTAL OF 33 CHARACTERS)

FF hex	00 hex	[A]	XX	[6 CHARACTERS]	[6 CHARACTERS]	[A]	XX	[6 CHARACTERS]	[6 CHARACTERS]	[CR]
START1				WEIGHT						
START2										
STATION ID										
ANGLE										
DATA										
DATA COPY										
END OF TEXT										

DATA RECEIVED AT THE DSP1000 (W110-02) IS CHECKED AS FOLLOWS:
TOTAL CHARACTERS IS 33.
FIRST 2 CHARACTERS ARE FF hex AND 00 hex.
DATA COPY COMPARES TO DATA
LAST CHARACTER = [CR]
DATA IS NOT ACCEPTED IF ANY OF THE ABOVE IS NOT TRUE.

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DUTY CYCLE:

CONTINUOUS EXCEPT WHEN OUTPUT IS BEING UPDATED:

TRANSMITTING
.9 SEC MAX.

UPDATING
.01 SEC
MAX

THE LCD DISPLAY ON THE DSP1000 (W110-02) WILL INDICATE WHETHER OR NOT PROPER RECEPTION IS OCCURRING. THE BOTTOM LINE OF THE DISPLAY WILL BE BLANK WHEN RECEPTION IS NOT OCCURRING. OTHERWISE IT IS A BAR GRAPH WHICH INDICATES PERCENT OF CORRECT DATA RECEIVED PER SECOND (0-100%). NOTE: AT 9600 BAUD AND 33 CHARACTERS PER MESSAGE THIS SYSTEM HAS 28 CHANCES PER SECOND TO RECEIVE CORRECT DATA MESSAGES.

AS CORRECT DATA IS RECEIVED, THE DSP1000 (W110-02) WILL THEN CALCULATE A 'RATE' AND 'TOTAL' INFORMATION TO BE DISPLAYED ON THE LCD DISPLAY.

TRANSMITTER FREQUENCY IS SELECTABLE FROM 903.3 MHZ TO 921.3 MHZ VIA DIP SWITCH SETTING. ALL TIMING IS DERIVED FROM 11.0592 MHZ, 4.9152 MHZ, AND 12.0 MHZ OSCILLATORS.

RECEIVER FREQUENCY IS SELECTABLE FROM 903.3 MHZ TO 921.3 MHZ VIA DIP SWITCH SETTING. ALL TIMING IS DERIVED FROM 11.0592 MHZ, 3.6864 MHZ, AND 4.0 MHZ OSCILLATORS.

THIS SYSTEM REQUIRES 120 VAC FOR THE DSP100 (W110-02) AND BT10 (BT10-02) ENCLOSURES.

SCITRONICS INDS. INC.