Addendum to TI-500E Plus Setup/Operation Manual
For Time, Date, Print Formats Option

OVERVIEW OF CHANGES

1. This indicator option provides time, date and programmable print formats.

Changes to user (A) menu descriptions

1. For A3, selections are designed at d, C and Auto instead of 0, 1 and 2.

2. Sub-menus A7 and A9 thru A11 have been removed; these functions can be programmed within the print format string itself.

3. Sub-menus A14 thru A17 have been added.

4. Sub-menu A31 [has been added.

A3
Serial Port
Mode
	Selects the mode of the I/O serial port: Refer to Appendix B for more information.
	
	      "d" = Demand Duplex
	      "C" = Continuous Duplex
	      "Auto" = Auto Print
		d (NA/€)
		C
		Auto

A14 Time Format	Selects the printed format for time.. "0" = AM/PM "1" = 24 Hr	**0√ (NA)** **1√ (€)**
A15 Set Time	Actuates the function that allows setting the time. Pressing the ZERO key to scroll down one level begins the test sequence.	Press ZERO key to begin sequence
A16 Set Date	Actuates the function that allows setting of the date. Pressing the ZERO key to scroll down one level begins the test sequence.	Press ZERO key to begin sequence
A17 Date Format	Selects the printed format for date. "1" = mm/dd/yy "2" = dd/mm/20yy "3" = dd/mm/yy "4" = dd/mm/20yy "5" = yy/mm/dd "6" = 20yy/mm/dd	**1√ (NA)** 2 **3√ (€)** 4 5 6
A31 Edit Output String	Actuates the function that allows editing of output string. Pressing the ZERO key to scroll down one level begins the test sequence.	Press ZERO key to begin sequence

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Changes to user (A) menu procedures

- Add the following procedures:

Set Time (A15)

Your indicator will keep track of the current time for you, which can then be printed on the print ticket. Use this procedure to set the time, which must be entered in military (24-hr) format. For example, for 9:00 AM, you would enter 900. For 5:00 PM, you would enter 1700.

1. While in the User Menu mode, scroll to "**A 15**", and then scroll down once using the ZERO key to enter the set time menu.
2. The display will momentarily show "**ENT TI**", followed by a value with one flashing digit. This value will be the current time in military (24-hr) format.
3. Use the four directional keys to adjust the displayed value to the actual time value. Increase the flashing digit by pressing the UNITS key. Decrease the flashing digit by pressing the ZERO key. Pressing the PRINT key or the TARE key will change the position of the flashing digit.
4. After setting the exact value, press the NET/GROSS key to save the time value. The display will show "**End TI**" momentarily, and then revert back up to A15.

Set Date (A16)

Your indicator will keep track of the current date for you, which can then be printed on the print ticket. Use this procedure to set the date, which must be set in mm/dd/yy format. For example, for January 7, 2008, you would enter 010708. For November 30, 2008 you would enter 113008.

1. While in the User Menu mode, scroll to "**A 16**", then scroll down once using the ZERO key to enter the date entry menu.
2. The display will momentarily show "**ENT DT**", followed by a value with one flashing digit. This value will be the current date in mm/dd/yy format.
3. Use the four directional keys to adjust the displayed value to the actual date value. Increase the flashing digit by pressing the UNITS key. Decrease the flashing digit by pressing the ZERO key. Pressing the PRINT key or the TARE key will change the position of the flashing digit.
4. After setting the exact value, press the NET/GROSS key to save the date value. The display will show "**End DT**" momentarily, and then revert back up to A16.

Edit Output String (A31)

Please see Appendix B for more information.

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Changes to Appendix B

- Replace Output Strings section wit the following four sections
- Add Edit Output String (A31) procedure

OUTPUT STRING

The indicator contains one editable output string (print format). You can simply choose one of three output strings already created for you or you can edit one of the pre-defined output strings to suit your application.

Output strings are created by assigning a hexadecimal value to a decimal address. The addresses start at 0 (displayed as 00) and end at 94. The HEX value can be a printable ASCII character or a print command. Below please find a table of print commands.

Print Commands

Dec	Hex	Printing Action	(abbrev.)	Parameter
128	80	Gross weight	(GWT)	
129	81	Net weight	(NWT)	
130	82	Tare weight	(TWT)	
131	83	Print the data on screen	(CWT)	
132	85	Units (lb, kg, PCS)	(UN)	
133	86	Date	(DAT)	
134	87	Time	(TIM)	
135	88	'O' = Over/Under; 'M'=Motion	(STAT)	
136	89	Gross/Net flag: 'G/N'	(GN)	
137	8A	MP20 printer to print header info.	(MP20)	
138	8B	Selects handshaking for serial port.	(CTS)	
149	8C	Print out ID number.	(PRID)	
140	8D	No. of line feeds.	(PRLF)	1-99 (Dec)
141	8E	No. of spaces.	(PRSPS)	1-99 (Dec)
142	90	Unit flag: 'L/K'	(LK)	
143	91	Unit flag: 'LB/KG'	(LBKG)	
144	92	Gross/Net flag: 'GR/NT'	(GRNT)	
0	00	Null	(NUL)	
255	FF	End of String	(EOS)	

NOTES:
1. The decimal values are provided only for reference; use HEX values when programming.
2. All output strings should end with an EOS character.
3. The Null character can be used to comment out a line when editing pre-defined output strings. In this manner an unnecessary line can simply be skipped, i.e. not printed.

TEXT PRINT TICKET

The Text Print Ticket is designed specifically for a serial printer.

```
ID.NO.       123456
DATE         01/28/09
TIME         10:23 AM
GROSS         1067 lb
TARE            67 lb
NET           1000 lb
```

Address (Dec)	Value (Hex)	Chart		Address (Dec)	Value (Hex)	Charts
00	49	I		29	4F	O
01	44	D		30	53	S
02	2E	.		31	53	S
03	4E	N		32	80	(GWT)
04	4F	O		33	85	(UN)
05	2E	.		34	0D	CR
06	8C	(PRID)		35	0A	LF
07	0D	CR		36	54	T
08	0A	LF		37	41	A
09	44	D		38	52	R
10	41	A		39	45	E
11	54	T		40	20	' '
12	45	E		41	82	(TWT)
13	8E	(PRSPS)		42	85	(UN)
14	04	4		43	0D	CR
15	86	(DAT)		44	0A	LF
16	0D	CR		45	4E	N
17	0A	LF		46	45	E
18	54	T		47	54	T
19	49	I		48	20	' '
20	4D	M		49	20	' '
21	45	E		50	81	(NWT)
22	8E	(PRSPS)		51	85	(UN)
23	04	4		52	0D	CR
24	87	(TIM)		53	0A	LF
25	0D	CR		54	8D	(PRLF)
26	0A	LF		55	08	8
27	47	G		56	FF	EOS
28	52	R				

STRING FORMAT 1 (Condec Demand String)

String Format 1 is designed for two-way communication.
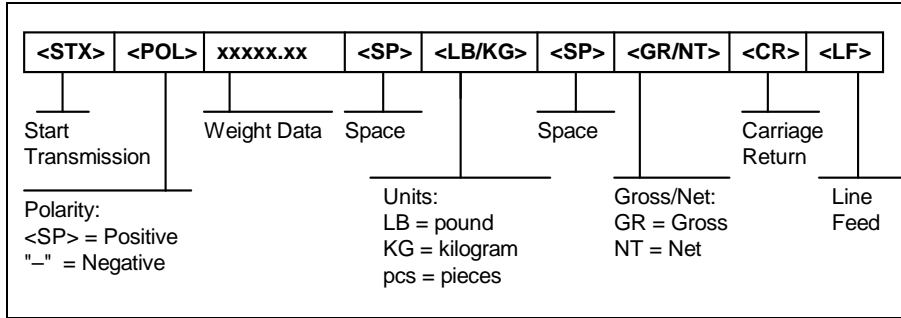
Address (Dec)	Value (Hex)	Chart		Address (Dec)	Value (Hex)	Charts
00	02	STX				
01	83	(CWT)				
02	20	' '				
03	91	(LBKG)				
04	20	' '				
05	92	(GRNT)				
06	0D	CR				
07	0A	LF				
08	FF	EOS				

STRING FORMAT 2 (Condec Continuous String)

String Format 2 is designed for one-way communication, e.g. remote display.

```
┌───────┬───────┬──────────┬───────┬───────┬────────┬──────┬──────┐
│ <STX> │ <POL> │ xxxxx.xx │ <L/K> │ <G/N> │ <STAT> │ <CR> │ <LF> │
└───────┴───────┴──────────┴───────┴───────┴────────┴──────┴──────┘
```

Start
Transmission

Weight Data

Gross/Net:
G = Gross
N = Net

Carriage
Return

Polarity:
<SP> = Positive
"–"   = Negative

Units:
L = pound
K = kilogram
PCS = pieces

Line
Feed

Status:
<SP> = Valid
M = Motion
O = Over/under range
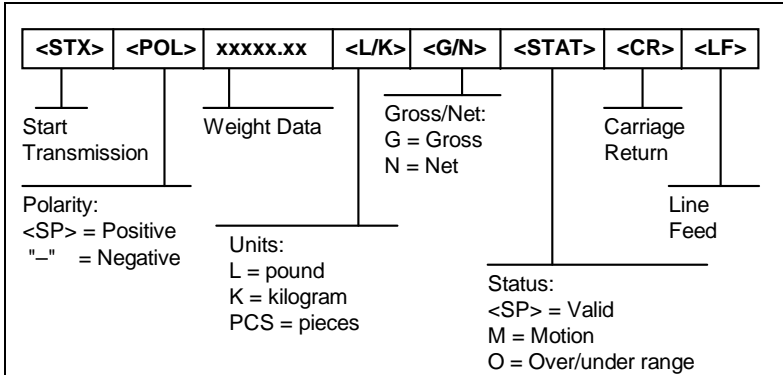
Address (Dec)	Value (Hex)	Chart		Address (Dec)	Value (Hex)	Charts
00	02	STX				
01	83	(CWT)				
02	90	(LK)				
03	89	(GN)				
04	88	(STAT)				
05	0D	CR				
06	0A	LF				
07	FF	EOS				

Edit Output String (A31)

The programming format is AA__vv where AA is the address (00 to 94) and vv is the programming value (remember a value can be either a printable ASCII character or a print command.)

1. While in the User Menu mode, scroll to "**A 31**", and then scroll down once using the ZERO key to enter the edit output string menu. The display will show the programming format, e.g. 00 49 where 00 is address 0 and 49 is the current programming value in hex.

2. Use the right arrow key (PRINT) to increase the address by one. Use the left arrow key (TARE) to decrease the address by one.

3. After selecting the address you want to change, press the NET/GROSS key. The programming value will start flashing. Increase the flashing digit by pressing the UNITS key. Decrease the flashing digit by pressing the ZERO key. Pressing the PRINT key or the TARE key will change the position of the flashing digit.

4. After setting the exact programming value, press the NET/GROSS key to save. The indicator will automatically increment to the next address.

5. Repeat Steps 3 and 4 until the entire output string has been programmed.

6. Press the UNITS key to exit A31 menu mode.