



TRANSCCELL TECHNOLOGY, INC.

TI-500 Series

Digital Indicator

Setup / Operation Manual

Revision 2.6
October 12, 2004

© 1994-2004 Transcell Technology, Inc.

Contents subject to change without notice.

Transcell Technology, Inc.
975 Deerfield Parkway
Buffalo Grove, IL 60089
Tel (847) 419-9180
Fax (847) 419-1515
E-mail: transcell@transcell.net
Web: www.transcell.net

TABLE OF CONTENTS

	<u>Page</u>
Chapter 1: Introduction To The TI-500 Series Indicator	1-1
Chapter 2: Installation	2-1
2.1 ABS Enclosure	2-1
2.1.1 Connecting the weigh platform.....	2-2
2.1.2 Connecting the serial printer, remote display or computer	2-2
2.1.3 Connecting the power supply.....	2-3
2.2 Stainless Steel Enclosure	2-3
2.2.1 Connecting the weigh platform.....	2-5
2.2.2 Connecting the serial printer, remote display or computer	2-6
2.2.3 Connecting the power supply.....	2-6
2.2.4 Connecting the 4-20 mA analog output	2-7
2.2.5 Connecting the RS-485 output.....	2-7
Chapter 3: Configuration	3-1
3.1 Configuration Overview.....	3-1
3.2 Setup (“F”) Menu	3-1
3.2.1 Entering the Setup Menu – ABS Enclosure	3-1
3.2.2 Entering the Setup Menu – Stainless Steel Enclosure	3-1
3.2.3 Navigating in the Setup Menu	3-2
3.2.4 Notes on the Setup Menu	3-3
3.2.5 Exiting the Setup Menu – ABS Enclosure.....	3-4
3.2.6 Exiting the Setup Menu – Stainless Steel Enclosure	3-4
3.3 User (“A”) Menu.....	3-4
3.3.1 Entering the User Menu	3-4
3.3.2 Navigating in the User Menu.....	3-5
3.3.3 Notes on the User Menu	3-7
3.3.4 Exiting the User Menu.....	3-7
Chapter 4: Setup Menu Descriptions and Procedures	4-1
4.1 Setup Menu Descriptions	4-1
4.2 Setup Menu Procedures	4-3
4.2.1 Fine-tune 4-20 mA output (F23).....	4-3

Chapter 5:	User Menu Descriptions and Procedures	5-1
5.1	User Menu Descriptions	5-1
5.2	User Menu Procedures	5-3
5.2.1	ID Number Entry (A8).....	5-3
5.2.2	Line Feeds Entry (A9)	5-4
Chapter 6:	Calibration	6-1
6.1	Calibration Overview	6-1
6.2	Zero Calibration (F16).....	6-1
6.3	Span Calibration (F17).....	6-1
6.4	View Calibration Values (F18).....	6-2
6.5	Key-in Zero Calibration Value (F19)	6-2
6.6	Key-in Span Calibration Value (F20)	6-3
Chapter 7:	Operation.....	7-1
7.1	Display.....	7-1
7.1.1	Liquid Crystal Display (LCD).....	7-1
7.1.2	Light Emitting Diode (LED) Display.....	7-1
7.2	Keyboard	7-2
7.2.1	Function Keys.....	7-2
7.3	General Scale Operation.....	7-3
7.3.1	Weighing an item.....	7-3
7.3.2	Taring an item	7-3
7.3.3	Piece Counting.....	7-4
Chapter 8:	Legal for Trade Sealing.....	8-1
8.1	ABS Enclosure	8-1
8.2	Stainless Steel Enclosure	8-1
Appendix A:	Specifications	A-1
Appendix B:	Serial Port Information.....	B-1
B.1	Serial Port Modes.....	B-1
B.1.1	Full Duplex Mode	B-1
B.1.1.1	Recognized Host Commands	B-2
B.1.2	Print Ticket Mode	B-2
B.1.3	Simplex Mode.....	B-3
Appendix C:	Determining Proper Span Gain (F2)	C-1
C.1	Span Gain Overview	C-1
C.2	Setting the initial value for span gain	C-1
C.3	Viewing the internal counts	C-1

Appendix D: Displayed Error Codes	D-1
Appendix E: Information on 4-20 mA Analog Output	E-1

LIST OF FIGURES

1-1 TI-500 Front Panel	1-2
1-2 TI-500E Front Panel	1-3
1-3 TI-500E-SS Front Panel	1-3
1-4 TI-500-BW Front Panel	1-4
1-5 TI-500-SSB Front Panel	1-4
1-6 TI-500-SL Front Panel	1-5
2-1 TI-500/TI-500E ABS Enclosure Rear Panel	2-1
2-1a TI-500-BW ABS Enclosure Rear Panel	2-1
2-2 Color Codes for Shielded Load Cell Cable	2-2
2-3 Pin Assignments for the Load Cell Port	2-2
2-4 Pin Assignments for the D-SUB9 serial port connector	2-2
2-5 TI-500E-SS Main Circuit Board Overview	2-3
2-5a TI-500E-SS (4-20) Main Circuit Board Overview	2-4
2-5b TI-500-SSB Main Circuit Board Overview	2-4
2-5c TI-500-SL Main Circuit Board Overview	2-5
2-6 Connection Assignments for the Load Cell Terminal	2-5
2-6a Connection Assignments for the Load Cell Terminal (4-20)	2-5
2-7 Connection Assignments for the serial communication Terminal	2-6
2-7a Connection Assignments for the serial communication Terminal (4-20)	2-6
2-8 Analog Output Terminal (4-20)	2-7
2-9 RS-485 Output Terminal (4-20)	2-7
3-1 Setup Menu Key Assignments	3-2
3-2 Setup Menu Chart	3-3
3-3 User Menu Key Assignments	3-5
3-4 User Menu Chart	3-6
5-1 User Menu Key Assignments	5-3
6-1 Setup Menu Key Assignments	6-1
7-1 TI-500 Series LCD Detail	7-1
7-2 TI-500 Series LED Display Detail	7-1
7-3 Function Keys Layout – non-battery powered units	7-2
7-3a Function Keys Layout – battery powered units	7-2
8-1 TI-500 and TI-500E ABS Rear Panel	8-1
8-1a TI-500-BW ABS Rear Panel	8-1
B-1 Cable Diagram for Indicator to IBM PC	B-1
B-2 Consolidated Controls Demand Mode	B-1
B-3 Print Ticket	B-2
B-4 Cable Diagram for Indicator to Printer	B-2
B-5 Consolidated Controls Continuous Mode	B-3

LIST OF TABLES

1-1 TI-500 Series Product Matrix	1-2
4-1 Invalid Setup Selections for commercial applications	4-3
6-1 Calibration Value Table	6-2
7-1 TI-500 Series Annunciator Definitions	7-2
C-1 Minimum Recommended Span Gain Table	C-2
C-1a Minimum Recommended Span Gain Table	C-3

This is a “Table of Contents preview” for quality assurance

The full manual can be found at <http://the-checkout-tech.com/estore/catalog/>

We also offer free downloads, a free keyboard layout designer, cable diagrams, free help and support.

<http://the-checkout-tech.com> : *the biggest supplier of cash register and scale manuals on the net*