



400 Series

Digital Indicator

Setup / Operation Manual

Revision 1.4
June 29, 2005

© 1999-2005 Salter Brecknell, Inc.

Contents subject to change without notice.

Salter Brecknell Weighing Products
1000 Armstrong Drive
Fairmont, MN 56031
Tel (800) 637-0529
Tel (507) 238-8702
Fax (507) 238-8271

E-mail: sales@salterbrecknell.com
Web: www.salterbrecknell.com.

TABLE OF CONTENTS

	<u>Page</u>
Chapter 1: Introduction to the 400ES Indicator	1-1
Chapter 2: Installation.....	2-1
2.1 Stainless Steel Enclosure (400ES).....	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
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.....	3-1
3.2.2 Navigating in the Setup Menu	3-1
3.2.3 Notes on the Setup Menu.....	3-2
3.2.4 Exiting the Setup Menu.....	3-2
3.3 User (“A”) Menu	3-3
3.3.1 Entering the User Menu.....	3-3
3.3.2 Navigating in the User Menu	3-3
3.3.3 Notes on the User Menu.....	3-4
3.3.4 Exiting the User Menu	3-4
Chapter 4: Setup Menu Descriptions and Procedures.....	4-1
4.1 Setup Menu Descriptions.....	4-1
Chapter 5: User Menu Descriptions and Procedures.....	5-1
5.1 User Menu Descriptions	5-1
5.2 User Menu Procedures.....	5-2
5.2.1 ID Number Entry (A8)	5-2
5.2.2 Line Feeds Entry (A9).....	5-2
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	Light Emitting Diode (LED) Display	7-1
7.2	Keyboard.....	7-2
7.2.1	Function Keys	7-2
7.3	General Scale Operation	7-2
7.3.1	Weighing an item	7-2
7.3.2	Taring an item of unknown weight.....	7-3
7.3.3	Taring an item of known weight.....	7-3
7.3.4	Clearing the tare weight value.....	7-3
7.3.5	Entering an ID number.....	7-4
Chapter 8:	Legal for Trade Sealing	8-1
8.1	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

LIST OF FIGURES

1-1	400ES Front Panel	1-1
2-1	400ES Main Circuit Board Overview	2-1
2-1a	400ES Main Circuit Board Overview – newer units.....	2-1
2-2	Connection Assignments for the Load Cell Terminal (J8).....	2-2
2-2a	Connection Assignments for the Load Cell Terminal – newer units.....	2-2
2-3	Connection Assignments for the serial communication Terminal	2-2
2-3a	Connection Assignments for the serial communication Terminal – newer units	2-2
3-1	Setup Menu Key Assignments	3-2
3-2	Setup Menu Chart	3-2
3-3	User Menu Key Assignments	3-3
3-4	User Menu Chart	3-4
7-1	400ES LED Display Detail.....	7-1
7-2	Function Keys Layout.....	7-2
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

4-1	Invalid Setup Selections for commercial applications	4-3
6-1	Calibration Value Table	6-2
7-1	400ES Annunciator Definitions.....	7-1
C-1	Minimum Recommended Span Gain Table	C-2

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

The full manual can be purchased from our store:

<https://the-checkout-tech.com/manuals/Salter Brecknell/400 operation and setup manual>

And our free Online Keysheet maker:

<https://the-checkout-tech.com/Cash-Register-Keysheet-Creator/>

[HTTPS://THE-CHECKOUT-TECH.COM](https://THE-CHECKOUT-TECH.COM)