



**Defender[®] 6000 Indicators
Instruction Manual**

**Defender[®] 6000 Waagen
Bedienungsanleitung**

**Indicadores Defender[®] 6000
Manual de instrucciones**

**Manuel d'instructions sur les
indicateurs de Defender[®] 6000**

**Indicatori[®] Defender 6000
Manuale di istruzioni**

Table of Contents

1.	INTRODUCTION	3
1.1.	SAFETY PRECAUTIONS	3
1.2.	INTENDED USE	3
1.3.	OVERVIEW OF PARTS AND CONTROLS	4
1.4.	MAINBOARD	5
1.5.	CONTROL FUNCTIONS	6
2.	INSTALLATION	9
2.1	UNPACKING	9
2.2	EXTERNAL CONNECTIONS.....	9
2.2.1	Scale Base with EasyConnect™ Connector.....	9
2.2.2	Power input to i-DT61PW.....	9
2.2.3	AC Power to i-DT61XWE.....	9
2.3	INTERNAL CONNECTIONS	9
2.3.1	Opening the Housing.....	9
2.3.2	Scale Base without EasyConnect™ Connector.....	11
2.3.3	Communication Interface Cable to i-DT61PW.....	14
2.3.4	RS232 Interface Cable to i-DT61XWE.....	15
2.4	MOUNTING BRACKET.....	15
3.	OPERATION	16
3.1	TURNING THE SCALE ON/OFF.....	16
3.2	WEIGHING MODE	16
3.2.1	Enter the Mode and Start Weighing	16
3.2.2	Accumulation and Statistics	16
3.2.3	Check	17
3.2.4	Application Settings	18
3.3	COUNTING MODE	19
3.3.1	Enter the Mode	19
3.3.2	Establish an APW	19
3.3.3	Start Counting	19
3.3.4	Application Settings	19
3.4	PERCENT MODE	20
3.4.1	Enter the Mode	20
3.4.2	Establish a Reference Weight.....	20
3.4.3	Start Percent Weighing	20
3.4.4	Application Settings	20
3.5	DYNAMIC MODE.....	21
3.5.1	Enter the Mode	21
3.5.2	Start Dynamic Weighing	21
3.5.3	Application Settings	21
3.6	FILLING MODE.....	22
3.6.1	Enter the Mode	22
3.6.2	Start Filling	22
3.6.3	Resume and Pause Filling.....	22
3.6.4	Display of the Dot Matrix Screen.....	22
3.6.5	Application Settings	23
4.	MENU SETTINGS	24
4.1	MENU NAVIGATION	24
4.1.1	User Menu.....	24
4.1.2	Button Navigation.....	25
4.2	CALIBRATION MENU.....	26
4.2.1	Initial Calibration.....	26
4.2.2	Zero Calibration [ZERR].....	26
4.2.3	Span Calibration [SPAN].....	26
4.2.4	Linearity Calibration [L #?].....	27
4.2.5	GEO Adjustment [GEO].....	27
4.2.6	Calibration Test [L.E.S.E].....	28

4.2.7	<i>End Cal [End]</i>	28
4.3	SETUP MENU	29
4.4	READOUT MENU	33
4.5	UNIT MENU.....	35
4.6	GLP/GMP MENU	35
4.7	COMMUNICATION	36
4.7.1	<i>RS232 Menu</i>	36
4.7.2	<i>Print Menu</i>	37
4.7.3	<i>RS485 Configuration</i>	40
4.7.4	<i>Ethernet Configuration</i>	40
4.7.5	<i>Analog Configuration</i>	40
4.8	MEMORY	40
4.8.1	<i>Memory menu (for i-DT61PW model)</i>	40
4.8.2	<i>USB memory (for i-DT61XWE model)</i>	40
4.8.3	<i>Alibi Memory (for i-DT61XWE model)</i>	41
4.9	DISCRETE I/O (FOR I-DT61XWE MODEL)	46
4.9.1	<i>I/O Type</i>	46
4.9.2	<i>Input</i>	47
4.9.3	<i>Output</i>	47
4.10	LOCK KEY CONFIGURATION	47
4.11	LIBRARY (FOR I-DT61XWE MODEL).....	48
4.12	USER (FOR I-DT61XWE MODEL).....	50
4.13	USB (FOR I-DT61XWE MODEL)	52
4.13.1	<i>USB Flash Drive</i>	52
4.13.2	<i>RFID</i>	52
4.13.3	<i>Barcode</i>	52
4.13.4	<i>Keyboard</i>	52
4.13.5	<i>Wi-Fi/Bluetooth Dongle (Optional)</i>	53
5.	LEGAL FOR TRADE	55
5.1	SETTINGS.....	55
5.2	VERIFICATION	55
5.3	SEALING	55
6.	MAINTENANCE	57
6.1	CLEANING.....	57
6.1.1	<i>Cleaning for i-DT61PW Model</i>	57
6.1.2	<i>Cleaning for i-DT61XWE Model</i>	57
6.2	TROUBLESHOOTING	58
6.3	SERVICE INFORMATION	58
7.	TECHNICAL DATA	59
7.1	SPECIFICATIONS	59
7.2	TABLE OF GEO VALUES.....	61
8.	COMPLIANCE	62
9.	APPENDICES	64
9.1	APPENDIX A.....	64
9.2	APPENDIX B.....	66