



DS-700E

SERVICE MANUAL

Edition	Date	Year
1 st		2008

SHANGHAI TERAOKA ELECTRONIC CO.,LTD

TING LIN INDUSTRY DEVELOPMENTAL ZONE

JIN SHAN COUNTRY,SHANGHAI CHINA

TEL:+86-021-57234888

FAX:+86-021-57234090

CONTENTS

1. General Specification -----	
1.1. General Layout	1
1.1.1. Bench Type	1
1.1.2. Pole Type	2
1.2. Purpose	3
1.3. Features	3
1.4. Operation Conditions	3
1.5. Charging Conditions	3
1.6. Analog Specification	4
1.7. Capacity / Minimum Graduation / Tare Range	4
1.7.1. Single Interval	4
1.7.2. Multi-Interval	4
1.8. Display and Indicators	4
1.8.1. Display Specification	4
1.8.2. Indicators	4
1.9. Dimensions	5
1.10. External Connectors	5
1.11. Main Components	5
1.12. Existing Parts To Be Used	5
1.13. Key Sheet Layout	5
1.14. Key Function	6
1.14.1. Type A (Standard Export Version)	6
1.14.2. Type B (Preset Key Export Version)	6
1.15. Notable Difference from Current Teraoka Scale	6
2. Maintenance Mode -----	
2.1. Location of Span Switch	7
2.2. SPAN Adjustment	7
2.3. Escape From Calibration Mode	7
2.4. Specification Setting	8
2.4.1. Specification Enter (141)	8
2.4.2. Specification Enter (142)	8
2.5. Internal Count & A/D Count Display	9
2.6. Tax Setting	9
2.7. Operational Specification List	9
2.7.1. For the Customer – (141)	9
2.7.2. For Weight & Measure – (142)	10
3. Main Operation -----	
3.1. ON/OFF	12
3.2. Tare Subtraction	12

3.3. Plural Operation	12
3.3.1. Standard Version	12
3.3.2. Japan Type A Version	13
3.3.3. Japan Type B Version	13
3.4. AMT/TEND Key Operation	13
3.4.1. Method A (Direct Entry Method)	13
3.4.2. Method B (Indirect Entry Method)	14
3.5. Price Base Change By 100g/kg Key	14
3.6. Auto Zero Operation	14
3.7. kg and lb conversion by UNIT Key	15
3.8. kg, decimal lb and kati conversion by UNIT Key	15
3.9. Currency Conversion by EURO Key	15
3.9.1. Currency Conversion Operation Method 1	15
3.9.2. Currency Conversion Operation Method 2	16
3.10. Operations of Mode Set Key	16
3.10.1. Preset Key Setting	16
3.10.2. Conversion Rate Setting	16
3.10.3. Invert Currency Conversion Function	17
3.10.4. Cancel Currency Conversion Function	17
4. Error Message -----	18
5. Hardware Detail -----	
5.1. Microcomputer	19
5.2. Pin Assignment	19
5.3. Block Diagram of Electrical Connection	21
5.4. Physical Layout of Electrical Connection	21
6. RS-232C Interface (Normal) -----	
6.1. Specification	22
6.2. Pin Connection	22
6.3. Control Code And Characters	22
6.4. Data Format	23
6.5. Communication Method	24
6.5.1. Stream (Continuously Output)	25
6.5.2. Manual	25
6.5.3. Command	26
7. Circuitry Diagram -----	
8.1. Power Block	48
8.2. Keyboard Block	49
8.3. CPU Block	50
8.4. LED Block	51
8.5. A/D Block	52
8.6. Display Block	53

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/Digi/DS-700E service manual.html](https://the-checkout-tech.com/manuals/Digi/DS-700E%20service%20manual.html)

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)