4. Maintenance Mode

4.1. SPAN Switch and Software Version Check

1 - ZERO 2 - NET 3 - MEMORY 4 - BATTERY

OPERATION	WEIGHT	U.PRICE	T.PRICE	1	2	3	4	REMARKS
	0.0 0 0	0. 0 0	0.0 0	▼				Weighing mode.
[RE-ZERO]	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8 8					Enter 2 8 4 while pressing
[RE-ZERO] + [2] [8] [4]	S t E 1 9	V r x. x x	S - O N					[RE-ZERO].
								Display software ID code in weight column, version in unit price column. Display S-ON in total price column when SPAN switch is set to enable, Can access to 142 and calibration mode.
	S t E 0 8	V r x. x x	S - O F F					Display S-OFF when SPAN switch is set to disable. Can not access to 142 and calibration mode.
	0.0 0 0	0.0 0	0.0 0	▼				Goes back to Weighing mode after 3 seconds display.

4.2. SPAN Adjustment

1 - ZERO 2 - NET 3 - MEMORY 4 - BATTERY

OPERATION	WEIGHT	U.PRICE	T.PRICE	1	2	3	4	REMARKS
	0.0 0 0	0. 0 0	0.0 0	▼				Weighing mode.
[RE-ZERO]	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8 8					Enter 8 7 1 5 while pressing
[RE-ZERO] + [8] [7] [1] [5]	C A L 0 0							RE-ZERO.
Ensure no weight on platter, [*]	- - - - -							Calibrating zero point.
:								
:								
:								
Put full capacity weight on platter	C A L S P							
(e.g. 15kg), [*]	- - - - -							Calibrating Span.
After calibration	1 5.0 0 0	0.0 0	0.0 0	▼				Goes back to Weighing mode.

4.3. Escape from Maintenance mode

1 - ZERO 2 - NET 3 - MEMORY 4 - BATTERY

OPERATION	WEIGHT	U.PRICE	T.PRICE	1	2	3	4	REMARKS
	0.0 0 0	0. 0 0	0.0 0	▼				Weighing mode.
[RE-ZERO]	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8 8					Enter 8 7 1 5 while pressing
[RE-ZERO] + [8] [7] [1] [5]	C A L 0 0							RE-ZERO.
[T]	0.0 0 0	0. 0 0	0.0 0	▼				Escape to Weighing mode.
[RE-ZERO]	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8 8					Enter 8 7 1 5 while pressing
[RE-ZERO] + [8] [7] [1] [5]	C A L 0 0							RE-ZERO.
Ensure no weight on platter, [*]	- - - - -							Calibrating zero point.
:								
:								
	C A L S P							
[T]	0.0 0 0	0. 0 0	0.0 0	▼				Escape to Weighing mode.

4. 4. Specification Setting

4.4.1. Specification Enter (141)

1 - ZERO 2 - NET 3 - MEMORY 4 - BATTERY

OPERATION	WEIGHT	U.PRICE	T.PRICE	1	2	3	4	REMARKS
[RE-ZERO]	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8 8					Enter 1 4 1 while depressing
[RE-ZERO] + [1] [4] [1]	S P C 0 0	0 0 0 0	0 0 0 0					RE-ZERO.
[+]	S P C 0 1	0 0 0 0	0 0 0 0					+ key only increase Specification.
[-]	S P C 0 0	0 0 0 0	0 0 0 0					- key only decrease Specification.
[0] [1] [0] [1]	S P C 0 0	0 0 0 0	0 1 0 1					Only 1 & 0 are enable.
[*]	S P C 0 1	0 0 0 0	0 0 0 0					* key to store Specification.
[-]	S P C 0 0	0 1 0 1	0 0 0 0					
[-]	S P C 1 1	1 1 1 1	0 0 0 0					
[T]	0.0 0 0	0.0 0	0.0 0	▼				Store SPECS to EEPROM & escape to Weighing mode.

4.4.2. Specification Enter (142)

NOTE: It can work only when SPAN SWITCH is on (Enable).

1 - ZERO 2 - NET 3 - MEMORY 4 - BATTERY

OPERATION	WEIGHT	U.PRICE	T.PRICE	1	2	3	4	REMARKS
	0.0 0 0	0. 0 0	0.0 0	▼				Weighing mode.
[RE-ZERO]	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8 8					Enter 1 4 2 while depressing
[RE-ZERO] + [1] [4] [2]	S P C 0 8	0 0 0 0	0 0 0 0					RE-ZERO.
[+]	S P C 0 9	0 0 0 0	0 0 0 0					+ key only increase Specification.
[+]	S P C 1 0	0 0 0 0	0 0 0 0					+ key only increase Specification.
[1] [0] [1] [1]	S P C 1 0	0 0 0 0	1 0 1 1					Only 1 & 0 are enable.
[*]	S P C 1 1	0 0 0 0	0 0 0 0					* key to store Specification.
[-]	S P C 1 0	1 0 1 1	0 0 0 0					- key only decrease Specification.
[+]	S P C 1 1	0 0 0 0	0 0 0 0					
[1] [1] [1] [1]	S P C 1 1	0 0 0 0	1 1 1 1					
[C]	S P C 1 1	0 0 0 0	0 0 0 0					
[1] [0] [1] [0]	S P C 1 1	0 0 0 0	1 0 1 0					
[*]	S P C 1 2	0 0 0 0	0 0 0 0					* key to store Specification.
[+]	S P C 1 3	0 0 0 0	0 0 0 0					
[T]	0.0 0 0	0.0 0	0.0 0	▼				Store SPECS to EEPROM & Escape to Weighing mode.

4.5. Internal Count & A/D Count Display

1 - ZERO 2 - NET 3 - MEMORY 4 - BATTERY

OPERATION	WEIGHT	U.PRICE	T.PRICE	1	2	3	4	REMARKS
[RE-ZERO]	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8 8					Enter 0 0 9 while depressing
[RE-ZERO] + [0] [0] [9]	1	1 8 9 9 2	0					RE-ZERO.
								Weight and Unit Price column display A/D
								Count, Total Price column Display Internal
								Count.
[T]	0.0 0 0	0.0 0	0.0 0	▼				T key to go back Weighing mode.

4.6. Tax Setting

(Available when SPEC21.BIT2 = 0)

1 - ZERO 2 - NET 3 - MEMORY 4 - BATTERY

OPERATION	WEIGHT	U.PRICE	T.PRICE	1	2	3	4	REMARKS
	0.0 0 0	0.0 0	0.0 0	▼				Weighing mode.
[RE-ZERO]	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8 8					Enter 9 9 9 while pressing
[RE-ZERO] + [9] [9] [9]	t A	0.0 0	0.0 0					RE-ZERO.
[3] [0] [0]	t A	0.0 0	3.0 0					Enter Tax Rate, e.g. 3.00%.
[RE-ZERO]	r d 4 5	3.0 0	0.0 0					RE-ZERO to store specification.

[C]	C U t O F	3.0 0	0.0 0					Depress 'C' to select Cut Off
[C]	r d 4 5	3.0 0	0.0 0					Or Rounding.
[T]	0.0 0 0	0.0 0	0.0 0	▼				Store Tax Rate to EEPROM & return to Weighing mode.

4.7. Operational Specification List

For The Customer - (1 4 1)

SPEC NO.	BIT 3	BIT 2	BIT 1	BIT 0
0	**Auto Power-off function** (for no key operation & weigh operation) 0000 - Auto power-off disable when scale is not in use 0001 - 3 minute 0010 - 10 minutes 0011 - 30 minutes 0100 - 1 hour 0101 - 3 hours 0110 ~ 1111 - Not used			
1	**Buzzer** 0 - On 1 - Off	**Error alarm** 0 - On 1 - Off	**Currency conversion operation method** 00 - Inhibit currency conversion operation 01 - Method 1 10 - Method 2 11 - Not used	
2	**Decimal point position on currency conversion rate** 000 - 7th digit (0.XXXXXX) 001 - 6th digit (X.XXXXX) 010 - 5th digit (XX.XXXX) 011 - 4th digit (XXX.XXX) 100 - 3rd digit (XXXX.XX) 101 - 2nd digit (XXXXX.X) 110 - No decimal point (XXXXXX) 111 - Not used			
3	RTS/CTS handshaking of RS-232C ***V2.00*** 0 - On 1 - Off	**Baud rate of RS-232C** **V2.00* 000 - 1200 bps 001 - 2400 bps 010 - 4800 bps 011 - 9600 bps	100 - 19200 bps 101 - 38400 bps 110 - Not used 111 - Not used	

4	**Stop bit of RS-232C** *V2.00 0 - 1 bit 1 - 2 bit	Data length of RS-232C ***V2.00** 0 - 7 bit 1 - 8 bit	**Parity of RS-232C** *V2.00 00 - None 01 - Odd 10 - Even 11 - Not used	
5	**Interval of time out error of RS-232C** *V2.00 00 - 1 second 01 - 3 second 10 - 5 second 11 - 10 second		Transmission condition of RS-232C ***V2.00** 0 - Weight stable 1 - Unconditional	Additional parity code in text of RS-232C ***V2.00** 0 - No 1 - Yes
SPEC NO.	BIT 3	BIT 2	BIT 1	BIT 0
6	Tare Weight in text of RS-232C ***V2.00** 0 - No 1 - Yes	Unit Price in text of RS-232C ***V2.00** 0 - No 1 - Yes	Total Price Weight in text of RS-232C *V2.00 0 - No 1 - Yes	Weight range of data output ***V2.00** 0 - Always 1 - Over 20e
7	Key operation for unit price and tare in **Pos-Weigh-Mode** (for Checkout-Dialog 02/04 only) *V2.00 0 - Allow 1 - Inhibit			

8	**Data transfer protocol of RS-232C** **V2.00* 00000 - Inhibit data transfer 00001 - Type A (Standard stream) 00010 - Type W (Standard manual) 00011 - Type B (Standard command) 00100 - Type C (QUQA TRADING) 00101 - Type D (IBM, HUGIN) 00110 - Type E (ICL OLD) 00111 - Type F (ICL PORTUAGAL) 01000 - Type G (ICL ACTUAL) 01001 - Type H (CAS) 01010 - Type J (NIXDORF) 01011 - Type K (NCR) 01100 - Type L (MONS) 01101 - Type X (WTN) (sending key) 01110 - Type I (CAS PORTUAGAL) 01111 - Not used 10000 - Not used 10001 - Not used 10010 - Type Q (UNIWELL, ICL OLD OMRON) 10011 - Type R (ICL ACTUAL OMRON) 10100 - Type Y (CN POSTSCALE) 10101 - Not used 10110 - Type S (ICL CS500) 10111 ~ 11111 - Not used			
9				**Data transfer protocol of RS-232C** **V2.00* BIT4 of Data transfer protocol of RS-232C
10 - 11				

NOTE: It can work only when the SPAN Switch is on (Enable)

SPEC NO.	BIT 3	BIT 2	BIT 1	BIT 0
12	**Version display when power on** 0 - Allow 1 - Inhibit	**Selection of segment-check style** 0 - Fast 1 - Standard	**Start range** 00 - ±10% F.S. 01 - ±5% F.S. 10 - ±3% F.S. 11 - ±2% F.S.	
13	**Price Base** 00 - $ / kg 01 - $ / 100g 10 - $ / lb 11 - $ / 1/4lb		**Re-zero function** 0 - Allow 1 - Inhibit	**Auto Zero function** 0 - Allow (for Japan) 1 - Inhibit
14	**Decimal point position on weight display** 00 - No decimal point 01 - 2nd digit (0000.0) 10 - 3rd digit (000.00) 11 - 4th digit (00.000)		Decimal point position on unit and total price display 00 - No decimal point for Unit & Total Price 01 - 2nd digit (0000.0) for Unit, 2nd digit (00000.0) for Total Price 10 - 3rd digit (000.00) for Unit, 3rd digit (0000.00) for Total Price 11 - 4th digit (00.000) for Unit, 4th digit (000.000) for Total Price	
15	**Minimum display** 00 - 1 01 - 2 10 - 5 11 - 10		**Selection of resolution** 00 - 1/3000 01 - 1/6000 10 - 1/7500 11 - Not used	
16	Weight single interval or multi-interval 0 - Single interval 1 - Multi-interval	Negative weight display mask 0 - Minus gross > 9e 1 - Minus gross Weight	Rounding for total price 00 - Rounding 01 - Truncation 10 - Cut up 11 - Not used	

17	**Additional rounding for total price** 000 - No additional rounding 001 - 1/4 rounding (25 step) 010 - Special rounding (5 step) 011 - 5 floor rounding (0-4 -> 0, 5-9 -> 5) 100 - Rounding for 1st digit 101 - Truncate 1st digit 110 - Cut up 1st digit 111 - Not used			**Additional rounding for kati display** 0 - Allow 1 - Inhibit
18	**Manual tare cancellation** 0 - Allow 1 - Inhibit	**Tare subtraction** 0 - Allow 1 - Inhibit	**Tare accumulation** 0 - Allow 1 - Inhibit	**Auto tare clear when rezero** 0 - Allow 1 - Inhibit
19	**Digital tare** 0 - Allow 1 - Inhibit	**Accumulation when tare** 0 - Allow 1 - Inhibit	**Zero tracking when tare** 0 - Allow 1 - Inhibit	**Weight reset when tare** 0 - Allow 1 - Inhibit

SPEC NO.	BIT 3	BIT 2	BIT 1	BIT 0
20	**Tare auto clear** 0 - Allow 1 - Inhibit	**Unit price auto clear** 0 - Allow 1 - Inhibit	**Price Base auto clear** 0 - Allow (For UK) 1 - Inhibit	**Auto clear condition** 0 - >= Gross 21e & >= Net 5e 1 - >=Net 1e & price not 0
21	**Currency conversion function** 0 - Allow 1 - Inhibit	**Tax** 0 - Allow 1 - Inhibit	**Price Base change key(100g/kg, 1/4lb/lb)** 0 - Allow (For UK) 1 - Inhibit	**Net / Gross** **Multi-interval** 0 - Gross 1 - Net
22	**Change function** 0 - Allow 1 - Inhibit	**Change operation Method** 0 - Indirect (method B) 1 - Direct (method A)	**Management Mode** (Grand Total) 0 - Allow 1 - Inhibit	**G.T. correction** 0 - Allow 1 - Inhibit
23	UNIT key 000 - No 001 - For kg and lb conversion 010 - For kg, decimal lb and kati conversion (for HK) 011 ~ 111 - Not used			IR mode protected by SPAN SW 0 - No 1 - Yes
24	**Accumulation** 0 - Allow 1 - Inhibit	**Accumulation number display** 0 - Allow 1 - Inhibit	**Accumulation display style** 0 - Standard (“total”) 1 - Japan (“Add”)	**WT data synchronization (+ key only)** 0 - Allow 1 - Inhibit
25	**Exit from accumulation mode after 15 sec time out** 0 - Allow 1 - Inhibit	**Exit from accumulation mode when weight change** 0 - Allow 1 - Inhibit	**Price accumulation without removing weight** 0 - Allow 1 - Inhibit	**Price accumulation without change weight (for >= ±10e)** 0 - Allow 1 - Inhibit

26	Decimal point position on price display in secondary currency 00 - No decimal point for Unit & Total Price 01 - 2nd digit (0000.0) for Unit, 2nd digit (00000.0) for Total Price 10 - 3rd digit (000.00) for Unit, 3rd digit (0000.00) for Total Price 11 - 4th digit (00.000) for Unit, 4th digit (000.000) for Total Price		Rounding for currency conversion 00 - Rounding 01 - Truncation 10 - Cut up 11 - Not used	
27	**Exit from secondary currency mode when weight change (for > ±2e)** 0 - Allow 1 - Inhibit	**Currency symbol for secondary currency** 0 - No symbol 1 - 'EURO'	**Indicator for secondary currency** 0 - Allow 1 - Inhibit	**Inverse currency conversion function** 0 - Allow 1 - Inhibit
28	**Non-weighing item accumulation** 0 - Allow 1 - Inhibit	**Weight range of Non-weigh item** 0 - Always 1 - Net 0d	Weight stability condition 00 - Loose 01 - Normal 10 - Tight 11 - Stringent	

SPEC NO.	BIT 3	BIT 2	BIT 1	BIT 0
29	Subtraction 0 - Allow 1 - Inhibit	Multiplication 0 - Allow 1 - Inhibit		Password setting 0 - Allow 1 - Inhibit
30				Weight change or remove check of data output ***V2.00*** 0 - Change 1 - Remove
31				