



# DMC-290 DATA SHEET

Spec No.	Bit 3	Bit 2	Bit 1	Bit 0
29 0 0 0 0	<b>Digital Tare Rounding</b> 0 : Tare Exactly 1 : Round to Nearest Increment	<b>Tare Value Exchange</b> 0 : Yes 1 : No	<b>Tare Addition</b> 0 : Yes 1 : No	<b>Tare Subtraction</b> 0 : Yes 1 : No
30 auto adjusting 1 0 0 1	<b>Load Cell Sensitivities Selection (mV/V) (Scale 1)</b>			
	SPC MIN MAX	SPC MIN MAX	SPC MIN MAX	SPC MIN MAX
	0000 3.46 4.00	0100 1.95 2.25	1000 1.09 1.27	1100 0.61 0.71
	0001 3.00 3.46	0101 1.69 1.95	1001 0.95 1.09	1101 0.53 0.91
	0010 2.59 3.00	0110 1.46 1.69	1010 0.82 0.95	1110 0.46 0.53
	0011 2.25 2.59	0111 1.27 1.46	1011 0.71 0.82	1111 0.40 0.46
31 auto adjusting 1 0 0 1	<b>Load Cell Sensitivities Selection (mV/V) (Scale 2)</b>			
	SPC MIN MAX	SPC MIN MAX	SPC MIN MAX	SPC MIN MAX
	0000 3.46 4.00	0100 1.95 2.25	1000 1.09 1.27	1100 0.61 0.71
	0001 3.00 3.46	0101 1.69 1.95	1001 0.95 1.09	1101 0.53 0.91
	0010 2.59 3.00	0110 1.46 1.69	1010 0.82 0.95	1110 0.46 0.53
	0011 2.25 2.59	0111 1.27 1.46	1011 0.71 0.82	1111 0.40 0.46
32 1 0 1 0	<b>Calibration Mode protected by Span Switch</b> 0 : Yes 1 : No	<b>Battery Low Lamp BATTERY 1</b> 0 : Yes 1 : No	<b>Auto Exit from Add Mode</b> 0 : No 1 : Yes	<b>External Load Cell (Scale 3)</b> 0 : No 1 : Yes
33 0 _ _ _	<b>Over Weight Mask at</b> 0 : +1d 1 : +9d	<b>Weight Decimal Point Position (Scale 3)</b> 000 : 00000      011 : 00.000 001 : 0000.0      100 : 0.0000 010 : 000.00		
34 0 0 0 0	NOT USED	<b>(For Scale 1)</b> 0 : For Std / Normal Load Cell 1 : For abnormal load cell with too large offset.	<b>A/D Board (Scale 1)</b> 00 : Normal 01 : Prevent from Small vibration/ fast change in display 10 : Prevent from Medium vibration 11 : Prevent from Large slow change in display	
35 0 0 0 0	NOT USED	<b>(For Scale 2)</b> 0 : For Std / Normal Load Cell 1 : For abnormal load cell with too large offset.	<b>A/D Board (For Scale 2)</b> 00 : Normal 01 : Prevent from Small vibration/ fast change in display 10 : Prevent from Medium vibration 11 : Prevent from Large slow change in display	
36 _ _ 0 0	<b>Minimum Display ( Scale 3)</b> 00 : 2      10 : 5 01 : 1      11 : 10	<b>A/D Board (For Scale 3)</b> 00 : Normal 01 : Prevent from Small vibration/ fast change in display 10 : Prevent from Medium vibration 11 : Prevent from Large slow change in display		
37 auto adjusting 1 0 0 1	<b>Load Cell Sensitivities Selection (mV/V) (Scale 3)</b>			
	SPC MIN MAX	SPC MIN MAX	SPC MIN MAX	SPC MIN MAX
	0000 3.46 4.00	0100 1.95 2.25	1000 1.09 1.27	1100 0.61 0.71
	0001 3.00 3.46	0101 1.69 1.95	1001 0.95 1.09	1101 0.53 0.91
	0010 2.59 3.00	0110 1.46 1.69	1010 0.82 0.95	1110 0.46 0.53
	0011 2.25 2.59	0111 1.27 1.46	1011 0.71 0.82	1111 0.40 0.46
38 0 0 1 0	<b>(For Scale 3)</b> 0 : For Std / Normal Load Cell 1 : For abnormal load cell with too large offset	<b>Digital Tare When Loaded</b> 0 : Allow 1 : Not Allow	<b>Internal Count</b> 0 : 500,000 1 : 1,000,000	<b>Stability Check When Changing Scales</b> 0 : Yes 1 : No
39 0010	NOT USED	NOT USED	<b>REZERO WHEN CHANGING SCALE (V2.15+)</b> 0 : No 1 : Yes	

DFAI FR DFMO - Y / N				Serial Number							
END USER:				Sales Order No.							
OPTIONS				Customer							
SCANNER S/N:				Technician							
PRINTER S/N:				Date							
CUSTOM FORMAT											
FUNCTIONAL TEST				FUNCTIONAL TEST							
1	KEYBOARD ENTRY		16	SET POINT ITEM	1	2	3	4	5	6	
2	DIGITAL TARE		17	SET POINT GEN.	1	2	3	4	5	6	
3	TARE		18	OVERRANGE BLANKING							
4	AUTO TARE CLEAR	[ON]	[OFF]	19	AUTO POWER OFF	MIN.					
5	LB / KG SWITCH		20	DATE SETTING							
6	NEGATIVE COUNT		21	APPEARANCE							
7	RECOMPUTE		22	BAR CODE READER	SCANNER		PEN				
8	MEMORY STORAGE		23	SPEC SWITCH SETTING	[ON]		[OFF]				
9	AUTO UNIT WT CLEAR	[ON]	[OFF]	24	MEMORY CLEANED						
10	INSUFFICIENT SAMPLE		25	MAIN BOARD S/N T.H.A.	#						
11	ACCUMULATE		26	A/D NO. #	LOT NO #						
12	BATTERY (MEMORY BACKUP)	[ON]	[OFF]	SPEC SETTINGS							
13	BATTERY POWER SWITCH	[ON]	[OFF]	REZERO 1-4-1	13	26					
14	SOFTWARE VERSION		00	14	27						
15	RS-232 PORT		01	15	28						
			02	16	29						
			03	17	30						
			04	18	31						
			05	19	32						
	PLATFORM / SCALE 1	APPLIED	DISPLAY	06	REZERO 1-4-2	33					
	S/N	0		07	20	34					
	Model	1/4		08	21	35					
	Capacity	1/2		09	22	36					
	Grads	3/4		10	23	37					
	Zero count	Full		11	24	38					
				12	25	39		- - - -			
	PLATFORM / SCALE 2	APPLIED	DISPLAY	Q.C. LIST - ✓							
	S/N	0		INSTRUCTION MANUAL				QUICK GUIDE			
	Model	1/4		SPIDER	1.	2.	3.	4.			
	Capacity	1/2		PLATTER	1.	2.	3.	4.			
	Grads	3/4		POWER CORD			UNLOCKING TOOL				
	Zero count	Full		PACKED BY			CHECKED BY				
	PLATFORM / SCALE 3	APPLIED	DISPLAY	PLATFORM / SCALE 4			APPLIED		DISPLAY		
	S/N	0		S/N			0				
	Model	1/4		Model			1/4				
	Capacity	1/2		Capacity			1/2				
	Grads	3/4		Grads			3/4				
	Zero count	Full		Zero count			Full				

Ver. 3.20 **Customer Specification** : To enter this mode, press the following key sequence : [R][1][4][1] ie. Numeric keys 1, 4 ,1 while holding Rezero key.

Spec No.	Bit 3	Bit 2	Bit 1	Bit 0
0	<b>Tare When Change Scale</b> 0 = Old Tare 1 = New Tare	<b>Digital Tare Accumulation</b> 0 = No 1 = Yes	<b>Terminator</b> 0 = Carriage Return 1 = Carriage Return Linefeed (RS-232only)	<b>Weighing unit</b> 0= U.W. per/1000 1 = A.P.W.
1	<b>Power Auto Off Function</b> 0000 : Auto Power Off Disable when Net Wt. = 0 0001 ~ 1111 : Duration to activate Power Off (in Minutes). (1 to 15 minutes)			
2	<b>Scale Specification</b> 00 : Gram 01 : Kg 10 : Lb 11 : not used	<b>Kg/Lb Lamp Inhibit</b> 0 : No 1 : Yes	<b>Inventory Disp by Gross Key</b> 0: Gross Disp 1: No of Invnt	
3	RS-232 port commands 00 = standard RS-232 01 = ctm-290 (slip printer) 10 = tm-200( with cutter command) 11 = tm-200(with feed for tear off)	Print commands 00 = bcp-30 (barcode printer) 01 = ctm-290 (slip printer) 10 = tm-200( with cutter command) 11 = tm-200(with feed for tear off)		
4	<b>Set New Item Code during Normal Mode</b> 0: Yes 1: No	<b>Insufficient sample Level</b> 00 : 0.1 % 01 : 0.2% 10 : 0.0%	<b>Negative Counting</b> 0 : No 1 : Yes	
5	<b>Sampling time for Unit Weight Calculation</b> 0 : 10 times 1 : 5 times	<b>Unit Wt. Auto Re-computing</b> 0 : No 1 : Yes	<b>Date Order</b> 00:Year, Month, Date 01: Date, Month, Year 11: Month, Date, Year	
6	<b>Display Accuracy of Unit Weight</b> 0 : No 1 : Yes	<b>Clear All Input Key in One Touch</b> 0 = Yes 1 = No	<b>RS232 Continue Sending High</b> 0 = High 1 = Low	<b>Auto Shift To Next Position After Two Key of Teraoka Code Entry</b> 0 = No 1 = Yes
7	<b>Set Point Buzzer</b> 0 : Yes 1 : No	<b>Set Points:</b> 0: Latch 1: No Latch	<b>Set Point Type</b> 00 : %Quantity 10 : Quantity 01 : %Weight 11 : Weight	
8	<b>RS-232C (Connection (Force Balance))</b> 0 : No 1 : Yes	<b>RS-232C (FB) Data Length (Optional)</b> 0 : 7 bits 1 : 8 bits	<b>RS-232C (FB) Baud Rate (Optional)</b> 00:1200 10 4800 01:2400 11 9600	
9	<b>RS-232C (FB) Stop Bit (Optional)</b> 0 : 1 bit 1 : 2 bits	<b>Force Balance Type</b> 0: SHG-300 1: TP-200	<b>RS-232C (FB) Parity Bit (Optional)</b> 00 : No 10 : Not Used 01 : Odd 11 : Even	
10	<b>RS-232C Connection (PC / Printer)</b> 0 : No 1 : Yes	<b>RS-232C (PC/PRN) Data Length (Optional)</b> 0 : 7 bits 1 : 8 bits	<b>RS-232C (PC/PRN) Baud Rate (Optional)</b> 00 : 1200 10 : 4800 01 : 2400 11 : 9600	
11	<b>RS-232C (PC/PRN) Stop Bit (Optional)</b> 0 : 1 bit 1 : 2 bits	<b>PRINTER:</b> 0: Eltron or Epson 1: BCP-30 0 = output on RS-232 comma delimited file 1 = paper tape output on printer port (in prog mode)	<b>RS-232C (PC/PRN)Parity Bit (Optional)</b> 00 : No 10 : Not Used 01 : Odd 11 : Even	
12	<b>RS-232 (PC/PRN) Output (Optional)</b> 00 : Not Available 01 : When Counting Condition(PC) 10 : By * Key 11 : In Both Cases (DP122)	<b>Eltron format</b> 0 = eltron fixed format 1 = custom download format	<b>RS232C (PC/PRN) With Header</b> 0: Yes 1: No	
13	<b>RS232(PC/PRN) Header:</b> 0: Code 1: Title	<b>RS232 CONNECTOR</b> Sub Din 000 : Printer ..... Force Bal. 001 : Force Bal. ....Printer 100 : PC .....Force Bal.	Sub Din 101 : Force Bal .....PC 010 : Printer .....PC (*1) 011 : PC .....Printer(*2)	

14	<b>RS-232C Connection (Barcode Pen)</b> 0 : No 1 : Yes	<b>RS-232C (BCP) Data Length (Optional)</b> 0 : 7 bits 1 : 8 bits	<b>RS-232C (BCP) Baud Rate (Optional)</b> 00 : 1200 10 : 4800 01 : 2400 11 : 9600	
15	<b>RS-232C (BCP) Stop Bit (Optional)</b> 0 : 1 bit 1 : 2 bits	<b>RS232C (BCP) With Header</b> 0: Yes 1: No	<b>RS-232C (BCP)Parity Bit (Optional)</b> 00 : No 10 : Not Used 01 : Odd 11 : Even	
16	<b>SCALE 1:</b> 00: Internal Scale 1 01: Internal Scale 2 10: External Scale 11: Force Balance	<b>SCALE 2:</b> 00: Internal Scale 1 01: Internal Scale 2 10: External Scale 11: Force Balance		
17	<b>SCALE 3:</b> 00: Internal Scale 1 01: Internal Scale 2 10: External Scale 11: Force Balance	<b>SCALE 4:</b> 00: Internal Scale 1 01: Internal Scale 2 10: External Scale 11: Force Balance		
<b>ALL SCALES ARE UNIQUE AND EACH MUST HAVE THEIR OWN CHANNEL LOCATION.</b>				
18	<b>Set Point TTL Output</b> 0: Active Low 1: Active High	<b>Number Of Set Point:</b> 000: 2 Set Points 001: 3 Set Points	010: 4 Set Points 011: 5 Set Points 100: 6 Set Points	
19	<b>Display "Not F" Message For Items Not Stored In Memory</b> 0 : Yes 1 : No	<b>Link To IMS</b> 0 = NO 1 = YES	<b>Type of Force Balance (Japan Version Only)</b> 0: SHG-300 1: HR-60	<b>Print When Pressing + or - key in Add Mode</b> 0: yes 1: No

**Weight and Measures Specification** : To enter this mode, enter the numeric keys 1,4,2 while pressing the Rezero Key. The Span Switch must be "ON" to enter this mode.

Spec No.	Bit 3	Bit 2	Bit 1	Bit 0
20	<b>Minimum Display (Scale 1)</b> 00 : 2 10 : 5 01 : 1 11 : 10		<b>Minimum Display (Scale 2)</b> 00 : 2 10 : 5 01 : 1 11 : 10	
21	<b>Weight Decimal Point Position (Scale 1)</b> 000 : 00000 011 : 00.000 001 : 0000.0 100 : 0.0000 010 : 000.00			
22	<b>Weight Decimal Point Position (Scale 2)</b> 000 : 00000 011 : 00.000 001 : 0000.0 100 : 0.0000 010 : 000.00			
23	<b>Display Resolution</b> 00 : 1/10,000 10 : 1/2,500 01 : 1/5,000 11 : Not Used		<b>Zero Setting Range</b> 00 : Unlimited 10 : +- 10% FS - 10% F.S. 01 : +- 2% FS 11 : Unlimited	
24	<b>Masked Display at Minus Wt.</b> 0 : Gross 1 : Net	<b>Display at Minus Wt.</b> 0 : Minus Display 1 : Masked	<b>Zero Lamp Lighting Method</b> 0 : Gross 1 : Net	<b>When No AC, Display Mask When Battery Low or No Battery.</b> 0 : Yes 1 : No
25	<b>Scale Starting Method</b> 0 : Automatic 1 : Manual	<b>IR Mode protected by Span Switch</b> 0 : No 1 : Yes	<b>Scale Type</b> 0 : Single Scale 1 : Double Scale	<b>Gross Mode Available</b> 0 : Yes 1 : No
26	<b>Zero Tracking When Tare</b> 0 : Yes 1 : No	<b>Weight Reset when Tare</b> 0 : Yes 1 : No	<b>Initial Start Range</b> 00 : Unlimited 10 : +- 10% FS - 10% FS 01 : +- 2% FS 11 : Unlimited	
27	<b>Comma Display</b> 0 : No 1 : Yes	<b>Digital Tare Setting</b> 0 : No 1 : Yes	<b>Tare Range</b> 00 : 100%FS 10 : 5% FS 01 : 50%FS 11 : Unlimited	
28	<b>Auto Tare clear when Rezero</b> 0 : No 1 : Yes	<b>Automatic Unit Weight Clear Condition</b> 00 : Over Net 5d and Gross 21d and Weight Stable 01 : >= Net 1d and Weight Stable 10 : >= Net 1d and Quantity >0 and Weight Stable	<b>Automatic Unit Weight Clear</b> 0 : No 1 : Yes	