

DV-1000 Worksheets

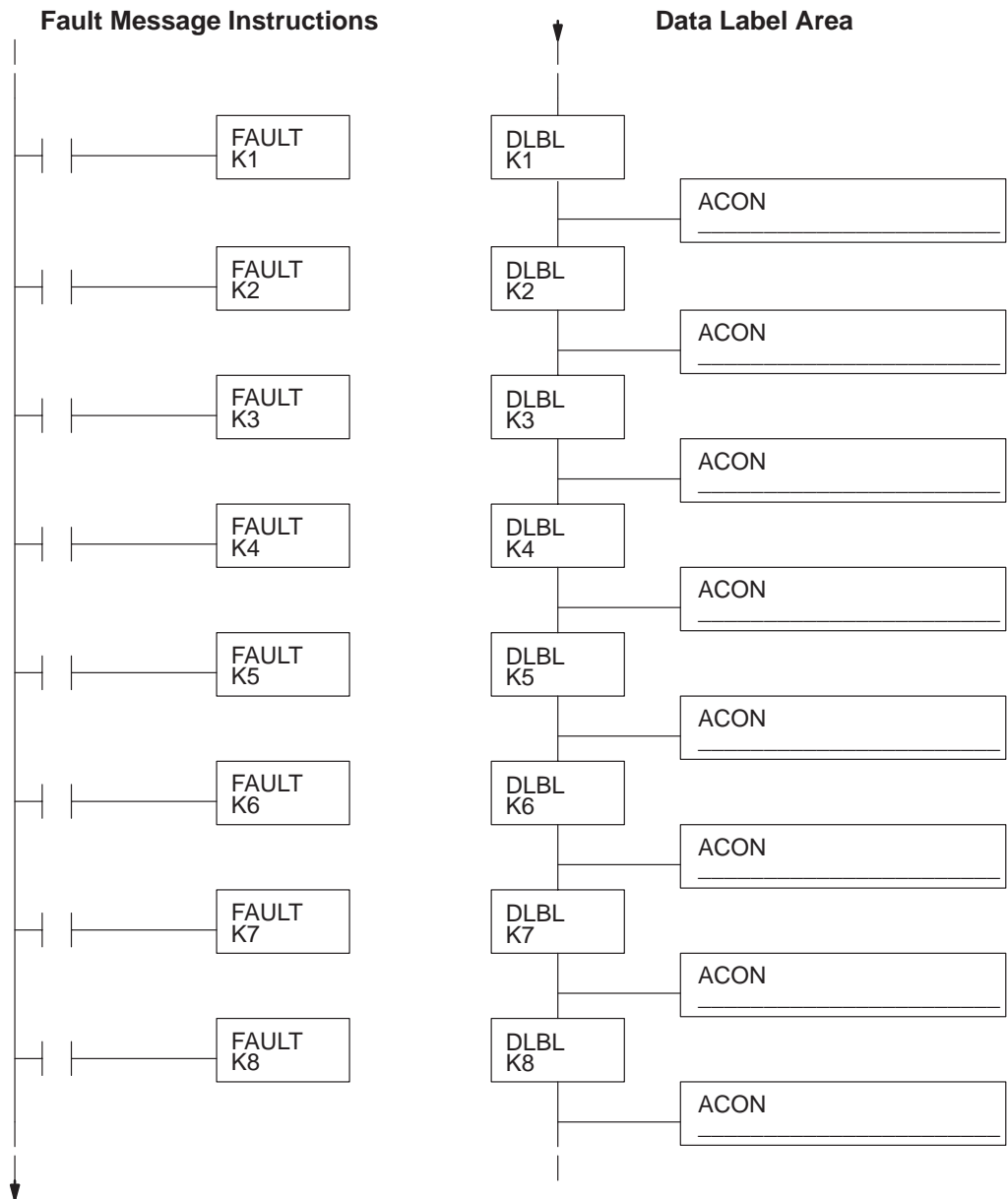
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Message Display Worksheets

Fault Messages

The Fault Instruction can output up to 23 characters. We recommend limiting it to 15 characters so the text fits within the DV-1000's top line. The following worksheet shows ladder program segments. On the left are the Fault boxes (yours may be spread throughout your program, and use different permissive contact arrangements). On the right are the corresponding data labels and ACON boxes. Each active Fault box can cause the message in the corresponding ACON Box to be displayed. Remember that the maximum number of Data Labels is 64, and the Data Label numbers are hexadecimal.



Message Display Output Maps

For combined numeric and text output, this worksheet can help you organize the numbers and ASCII codes with the proper memory locations.

Desired Display

7 6 5 4 3 2 1 0 7 6 5 4 3 2 1 0

Address	Setup Parameter	Value
V7623	Numeric Pointer	
V7624	Text Pointer	

Numeric Display Positions

3	2	1	0
7	6	5	4
13	12	11	10
17	16	15	14

7 6 5 4 3 2 1 0 7 6 5 4 3 2 1 0

Numeric Data

Position	V-Memory	Number
0		
1		
2		
3		
4		
5		
6		
7		
10		
11		
12		
13		
14		
15		
16		
17		

Text Display Positions

0	1	2	3	4	5	6	7
10	11	12	13	14	15	16	17
20	21	22	23	24	25	26	27
30	31	32	33	34	35	36	37

7 6 5 4 3 2 1 0 7 6 5 4 3 2 1 0

Text Data

Position	V-Memory	Data	Text
0			
1			
2			
3			
4			
5			
6			
7			
10			
11			
12			
13			
14			
15			
16			
17			

Text Data

Position	V-Memory	Data	Text
20			
21			
22			
23			
24			
25			
26			
27			
30			
31			
32			
33			
34			
35			
36			
37			

Display Output Grids

The following display grids are for general-purpose message display planning.

Numeric Output

Numeric Data Starting Address = V _____

	3			2			1			0	
	7			6			5			4	
	13			12			11			10	
	17			16			15			14	

Text Output

Text Data Starting Address = V _____

0	1	2	3	4	5	6	7
10	11	12	13	14	15	16	17
20	21	22	23	24	25	26	27
30	31	32	33	34	35	36	37

Numeric Output

Numeric Data Starting Address = V _____

	3			2			1			0	
	7			6			5			4	
	13			12			11			10	
	17			16			15			14	

Text Output

Text Data Starting Address = V _____

0	1	2	3	4	5	6	7
10	11	12	13	14	15	16	17
20	21	22	23	24	25	26	27
30	31	32	33	34	35	36	37

Change Preset Worksheet

Choose the text titles for the User-titled presets and the number of timer and counter preset titles. Remember to use at least one of each title type in all cases.

User Presets			Timer Presets		Counter Presets	
Text Titles	Text Locations	Data Locations	Titles	Data Locations	Counter Titles	Data Locations
			Timer 1		Counter 1	

Password Enable/Disable	Password Value	Powerup Mode	Powerup Value

Use the worksheet above to determine the setup parameter values below.

V-Memory Location	Setup Parameter Description	Format	Value	Notes:
V7620	User Preset Data Pointer	Octal		starting at V...
V7621	User Preset Titles Pointer	Octal		starting at V...
V7622	User Preset Block Size	BCD		# of titles
V7626	Powerup Mode	BCD		
V7627	Change Preset Password	BCD		
V7720*	Titled Timer Data Pointer	Octal		starting at V...
V7721*	Titled Counter Data Pointer	Octal		starting at V...
V7722*	Timer Preset Block Size (high byte)	BCD		xx timers, yy counters
	Counter Preset Block Size (low byte)			

*DL130 and DL230 CPUs use different memory locations here: V7640 instead of V7720, V7641 instead of V7721, and V7642 instead of V7722.

Use the table below as a continuation worksheet.

User Presets			Timer Presets		Counter Presets	
Text Titles	Text Locations	Data Locations	Titles	Data Locations	Counter Titles	Data Locations

**Timer and Counter
Numbering
Conversion Chart**

Timer and Counter label numbering on the DV-1000 is from 1 to 99, decimal. This allows the machine operator the convenience of using decimal numbers. However, timers and counter numbers in the CPUs are numbered in octal, starting with 0. If you decide to associate the first timer and/or counter labels with the first timer and counter boxes in the CPU, the following table provides the required conversion.

D	Oct	D	Oct	D	Oct	D	Oct	D	Oct	D	Oct	D	Oct	D	Oct		
1	0	12	13	23	26	34	41	45	54	56	67	67	102	78	115	89	130
2	1	13	14	24	27	35	42	46	55	57	70	68	103	79	116	90	131
3	2	14	15	25	30	36	43	47	56	58	71	69	104	80	117	91	132
4	3	15	16	26	31	37	44	48	57	59	72	70	105	81	120	92	133
5	4	16	17	27	32	38	45	49	60	60	73	71	106	82	121	93	134
6	5	17	20	28	33	39	46	50	61	61	74	72	107	83	122	94	135
7	6	18	21	29	34	40	47	51	62	62	75	73	110	84	123	95	136
8	7	19	22	30	35	41	50	52	63	63	76	74	111	85	124	96	137
9	10	20	23	31	36	42	51	53	64	64	77	75	112	86	125	97	140
10	11	21	24	32	37	43	52	54	65	65	100	76	113	87	126	98	141
11	12	22	25	33	40	44	53	55	66	66	101	77	114	88	127	99	142