

INSTRUCTION MANUAL
FOR
DPS MANUAL CONTROLLER
MODEL CS01-DPS

KIKUSUI ELECTRONICS CORPORATION

83.7.13

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1. GENERAL

The CS01-DPS is a manual controller designed for control of DPS Series Digital Programmable Power Sources manufactured by Kikusui.

Setting of data can be done with digital switches. The set data is stored in DPS as the trigger key switch for strobe is pressed.

The control signals, except the strobe signal, are contact signals.

The CS01-DPS displays the status of the DPS. This function is convenient for remote control of the DPS.

2. SPECIFICATIONS

Instrument name:	DPS Manual Controller	
Model number:	CS01-DPS	
Data:	Setting: Digital switches, contact signal, polarity "+" or "-"	
	Data: 0 - 9999, BCD, negative logic	
Strobe:	A or B	
	Trigger key, TTL level, negative logic,	
Address:	Toggle switches, contact signal	
	4 bits, binary, negative logic	
Range:	Toggle switches, contact signal,	
	2 bits, binary, negative logic	
Standby:	Toggle switch, contact signal,	
	1 bit, positive logic (edge)	
Direct set:	Pushbutton switch	} Contact signal, negative logic
Data clear:	Pushbutton switch	
Zero:	Toggle switch	
Standby:	Toggle switch	
Input display:	TTL level	
Ready:	Turns on when H level	
Overload:	Turns on when L level	
Thermal down:	Turns on when L level	
Address:	Turns on when L level	
Data:	Turns on when L level	
Range:	Turns on when L level	
Operating temperature range:	0 to 40°C	
Dimensions:	210 W × 65 H × 90 D mm (8.27 W × 2.56 H × 3.54 D in.)	
(Maximum dimensions)	215 W × 88 W × 94 D mm (8.46 W × 3.46 H × 3.70 D in.)	
Weight:	Approx. 0.85 kg (1.9 lbs)	

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3. OPERATION METHOD

3.1 Description of Panel Items (See Figure 3-1.)

- ① DATA: Digital switches for data setting. Data for 0 - 9999 and polarity for "+" or "-" can be set. No decimal point is displayed. Note the DPS range and columns for the decimal point.
- ② STROBE: To store in DPS the data set with the DATA switches of ① above, press the STROBE key. A/B are for output terminal selection. Use A for DPS-V and DPS-C Series.
- ③ RANGE: Range selection is done with 2 bits.

2^1	2^0	Negative logic
0	0	$R \leq 1$
0	1	$1 < R \leq 10$
1	0	$10 < R \leq 100$
1	1	$100 < R \leq 1000$

R: Range Unit $\left\{ \begin{array}{l} \text{V Model: V} \\ \text{C Model: mA} \end{array} \right.$

The range status is written as the STROBE key is pressed.

Select the required range by specifying the above code for the range of the DPS.

- ④ ADDRESS: To select the address corresponding to that set for DPS, with 4-bit binary code signal.
- ⑤ DIRECT SET: A command can be given irrespective of address setting. This button should be pressed to the set state when turning on the DPS power. Once the state has been set, it does not change even when the button is pressed again.
- DATA CLEAR: By pressing this button, the data written in DPS can be cleared to zero.

- ZERO: The DPS output is set to electrical zero, while protecting the contents of memory.
- ⑥ STANDBY: The output of the device of the coincident address is driven to zero, with mechanical isolation.
- ⑦ READY: Lighting of this indicator means that the instrument is ready for data write.
- ⑧ OVERLOAD: Lighting of this indicator means that the DPS output is in an overload state.
- ⑨ ADDRESS DATA RANGE: Lighting of this indicator means that ADDRESS, DATA, or RANGE is abnormal.
- ADDRESS: There is no corresponding device set on the control line.
- DATA: Data is invalid (exceeded the specified range).
- RANGE: The device specified by the address has no corresponding range.
- ⑩ THERMAL DOWN This lamp turns on when DPS temperature has become abnormally high and internal thermal relay has tripped.
- ⑪ Connector: Connector for control I/O signals (50-pin connector manufactured by Daiichi Densi Co.)

Note: The above functions are effective only when the DPS has corresponding functions.

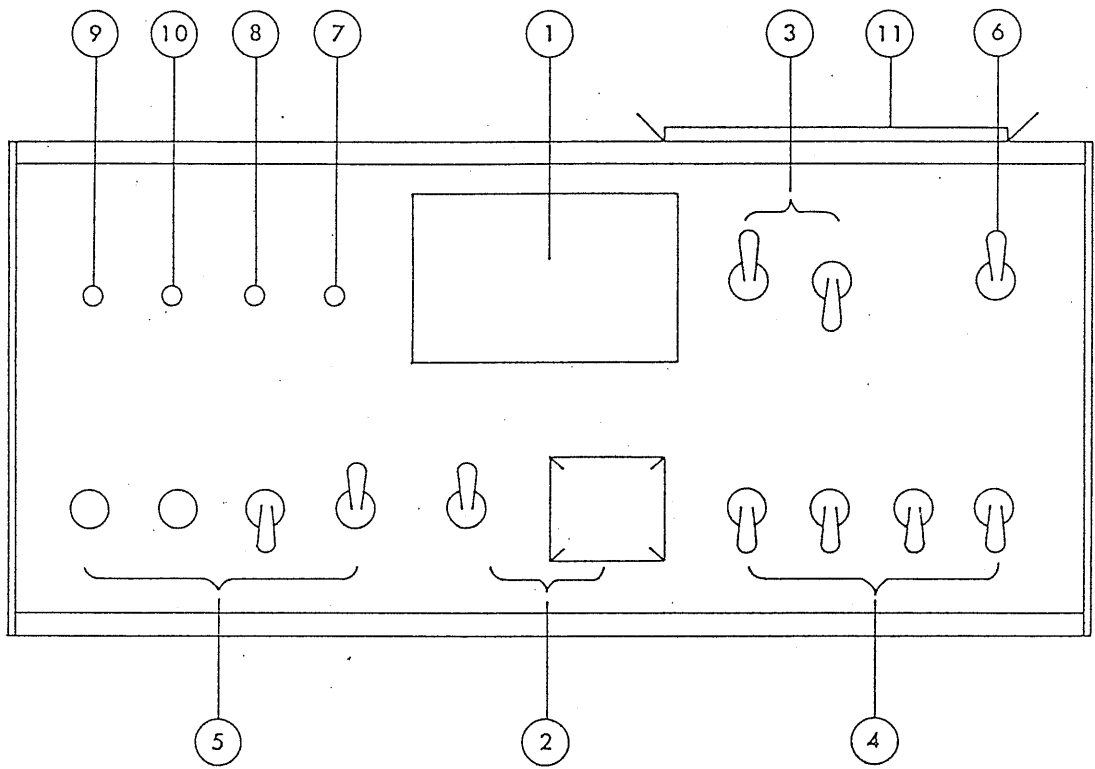


Figure 3-1

3.2 Pin Layout of Control I/O Connector

1	STROBE A	26	1	} LSD
2	STROBE B	27	2	
3		28	4	
4		29	8	
5		30	1	}
6		31	2	
7		32	4	
8	STANDBY	33	8	
9		34	1	}
10		35	2	
11		36	4	
12		37	8	
13		38	1	}
14	DATA CLEAR	39	2	
15	DIRECT STANDBY	40	4	
16	DIRECT ZERO	41	8	
17	2 ⁰ } RANGE	42	THERMAL DOWN	}
18	2 ¹ }	43		
19	2 ⁰ } ADDRESS	44	2 ² }	
20	2 ¹ }	45	2 ³ }	
21	OVERLOAD	46	POLARITY	
22		47	ERROR	
23	+5V IN	48	READY	
24	ADDRESS COINCIDENCE	49	SET	
25	GND	50	GND	