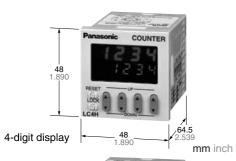
Panasonic ideas for life

DIN 48 SIZE LCD ELECTRONIC COUNTER

LC4H/-L Counters

LC4H Counters









Pin type

Screw terminal type

RoHS Directive compatibility information http://www.nais-e.com/

UL File No.: E122222 C-UL File No.: E122222

Features

1. Bright and Easy-to-Read Display
A brand new bright 2-color backlight LCD

display. The easy-to-read screen in any location makes checking and setting procedures a cinch.

2. Simple Operation

Seesaw buttons make operating the unit even easier than before.

3. Short Body of only 64.5 mm 2.539 inch (screw type) or 70.1 mm 2.760 inch (pin type)

With a short body, it easily installs in even narrow control panels.

4. Conforms to IP66's Weather Resistant Standards

The water-proof panel keeps out water and dirt for reliable operation even in poor environments.

c**₩**us (€

5. Screw terminal and Pin Type are Both Standard Options

The two terminal types are standard options to support either front panel installation or embedded installation.

6. Changeable Panel Cover

Also offers a black panel cover to meet your design considerations.

7. 4-digit or 6-digit display

Two sizes of displays are offered for you to choose the one that suits your needs.

8. Compliant with UL, c-UL and CE.

Product types

Relay (1c)	Digit	Count speed	Output mode	Output	Operating voltage	Power down insurance	Terminal type	Part number
Relay (1c) 24 V AC							8 pins	LC4H8-R4-AC240V
Relay (1c) 24 V AC 8 pins LC4H-R4-AC24V Screw terminal LC4H-R4-AC24V Screw terminal LC4H-R4-DC24V Screw terminal LC4H-R4-AC24O Screw terminal LC4H-R4-AC24O Screw terminal LC4H-R4-AC24V Screw terminal					100 to 240 V AC		11 pins	LC4H-R4-AC240V
Part							Screw terminal	LC4H-R4-AC240VS
4 4 4 4 4 4 4 4 4 4 4 4 4				Polov			8 pins	LC4H8-R4-AC24V
12 to 24 V DC					24 V AC			
12 to 24 V DC				(10)			Screw terminal	
**Maintain output/over count I **Maintain output/over count II **One shot/recount II **One shot/recount II **One shot/recount I **One s								
** Maintain output/hold count output/hold count output/hold count output/ver count I output/over count I one shot/recount I one					12 to 24 V DC			
**Maintain output/hold count	1							
Maintain output/hold count Maintain output/hold count Maintain output/tover count I	-							
Maintain output/hold count Maintain output/voer count Maintain output/ver coun					100 to 240 V AC			
Spins LC4H-14-AC24V			Maintain					
• Maintain output/over count I output/over count II output/over count II output/over count II one shot/recount II one shot/recount II one shot/recount II one shot/hold count (7 modes) 6				Transistor				
30 Hz (cps) 5 KHz (Kcps) 5 KHz (Kcps) 5 KHz (Kcps) 5 Witchable 6 6 6 7 6 7 7 7 8 pins LC4H-14-DC24V 11 pins LC4H-174-DC24V 12 to 24 V DC 100 to 240 V AC 100 to 240 V AC 12 to 24 V DC 13 pins LC4H-174-DC24V 14 pins LC4H-174-DC24V 15 pins LC4H-174-DC24V 16 pins LC4H-174-DC24V 16 pins LC4H-174-DC24V 18 pins LC4H-174-DC24V 19 pins LC4H-174-DC24V 100 to 240 V AC 100 to 240 V AC 11 pins LC4H-174-DC24V 12 to 24 V DC 12 to 24 V DC 12 to 24 V DC 13 pins LC4H-174-DC24V 14 pins LC4H-174-DC24V 15 pins LC4H-174-DC24V 16 pins LC4H-174-DC24V 17 pins LC4H-174-DC24V 18 pins LC4H-174-DC24V 19 pins LC4H-174-DC24V 100 to 240 V AC 100 to 240 V AC 11 pins LC4H-174-DC24V 12 to 24 V DC 11 pins LC4H-174-DC24V 12 to 24 V DC 12 to 24 V DC 12 to 24 V DC 13 pins LC4H-174-DC24V 14 pins LC4H-174-DC24V 15 pins LC4H-174-DC24V 16 pins LC4H-174-DC24V 17 pins LC4H-174-DC24V 18 pins LC4H-174-DC24V 19 pins LC4H-174-DC24V 100 to 240 V AC 100 to 240 V AC 11 pins LC4H-174-DC24V 12 to 24 V DC 12 to 24 V DC 12 to 24 V DC 14 pins LC4H-174-DC24V 15 pins LC4H-174-DC24V 16 pins LC4H-174-DC24V 17 pins LC4H-174-DC24V 18 pins LC4H-174-DC24V 19 pins LC4H-174-DC24V 100 to 240 V AC 11 pins LC4H-174-DC24V 11 pins LC4H-					24 V AC			
Maintain Output/over count II One shot/over count II One shot/recount I One shot/recount II One sh				(14)				
30 Hz (cps) 5 KHz (Kcps) 6 100 to 240 V AC 100 to 240 V AC 11 pins LC4H-14-DC24V 11 pins LC4H-R6-AC240V 12 to 24 V AC 13 pins LC4H-R6-AC24V 14 pins LC4H-R6-AC24V 15 pins LC4H-R6-DC24V 16 pins LC4H-R6-DC24V 16 pins LC4H-R6-DC24V 17 pins LC4H-R6-DC24V 18 pins LC4H-R6-DC24V 19 pins LC4H-R6-AC24V 19 pins								
6 **One shot/over count I one shot/recount I one shot/recount I one shot/hold count (7 modes) **Fransistor (1a) **Transistor		30 Hz (cps)/			12 to 24 V DC			
Switchable count One shot/recount I One shot/recount One s						Available		
• One shot/recount I • One shot/recount II • One shot/hold count (7 modes) Relay (1c) 100 to 240 V AC 11 pins 11 pi						7174114213		
• One shot/recount II • One shot/hold count (7 modes) Relay (1c) 24 V AC 24 V AC 12 to 24 V DC Relay (1c) 13 pins			One shot/recount I		100 to 240 V AC			
• One shot/hold count (7 modes) Relay (1c) 24 V AC Relay (1c) 12 to 24 V DC Relay (1c) 13 pins LC4H-R6-AC24V 14 pins LC4H-R6-DC24V Screw terminal LC4H-R6-DC24V 15 pins LC4H-R6-AC24V Screw terminal LC4H-R6-AC24V 16 pins LC4H-R6-AC24V 17 pins LC4H-R6-AC24V 18 pins LC4H-R6-AC24V 19 pins LC4H-R6-AC24V 100 to 240 V AC Relay (1c) 11 pins LC4H-R6-AC24V 11 pins LC4H-R6-DC24V								
6 (1c) (1c				Relav	241440			
(7 modes) 12 to 24 V DC 12 to 24 V DC 12 to 24 V DC 13 pins			count		24 V AC			
12 to 24 V DC 12 to 24 V DC 11 pins			(7 modes)	(-/				
Screw terminal LC4H-R6-DC24VS 8 pins LC4H8-T6-AC240V 11 pins LC4H-T6-AC240V Screw terminal LC4H-T6-AC240V Screw terminal LC4H-T6-AC240V Screw terminal LC4H-T6-AC240V Screw terminal LC4H-T6-AC24V Screw terminal LC4H-T6-DC24V 12 to 24 V DC 11 pins LC4H-T6-DC24V 11					401 041/100			
100 to 240 V AC					12 to 24 V DC			
Transistor (1a) 100 to 240 V AC 11 pins	6					-		
Transistor (1a) 24 V AC 24 V AC 24 V AC 25 Crew terminal LC4H-T6-AC24V 11 pins LC4H-T6-AC24V 11 pins LC4H-T6-AC24V 12 to 24 V DC 12 to 24 V DC 13 pins LC4H-T6-DC24V 14 pins LC4H-T6-DC24V					100 to 040 V AC			
Transistor (1a) 24 V AC 24 V AC 8 pins					100 to 240 V AC			
11 pins						-		
(1a) Screw terminal LC4H-T6-AC24VS 8 pins LC4H8-T6-DC24V 12 to 24 V DC 11 pins LC4H-T6-DC24V				Transistor	24 1/ 40			
12 to 24 V DC 8 pins LC4H8-T6-DC24V 11 pins LC4H-T6-DC24V				(1a)	24 V AC			
12 to 24 V DC 11 pins LC4H-T6-DC24V						1		
					12 to 24 V DC			
					12 10 24 V DC		Screw terminal	LC4H-T6-DC24VS

^{*} A rubber gasket (ATC18002) and a mounting frame (AT8-DA4) are included.

LC4H-L Counters



AEL11 Series (4-digit display)



AEL13 Series (6-digit display)





/ne

Screw terminal type

UL File No.: E122222 C-UL File No.: E122222

Features

1. Low Price

All this at an affordable price to provide you with unmatched cost performance.

- 2. Display is a bright reflective-type LCD.
- 3. Inherits all of the characteristics of the LC4H digital timer.
- Seesaw switches ensure easy operation.
- IP66 environmental protection.
- Shortened body (pin type: 70.1 mm 2.760 inch, screw type: 64.5 mm 2.539 inch underhead).
- 4. Compliant with UL, c-UL and CE.

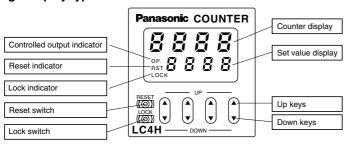
Product types

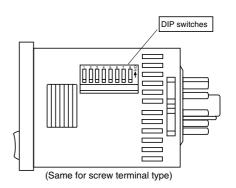
Digit	Count speed	Output mode	Output	Operating voltage	Power down insurance	Terminal type	Part number
Digit	Count speed	Output mode	Output	Operating voltage	i ower down insulance	,,,	20.0
				100 to 240 V AC		8 pins	LC4HL8-R4-AC240V LC4HL-R4-AC240V
				100 to 240 V AC		11 pins	
					-	Screw terminal	LC4HL-R4-AC240VS
			Relay	24 V AC/DC		8 pins 11 pins	LC4HL8-R4-AC24V LC4HL-R4-AC24V
			(1c)	24 V AC/DC			
			, ,		-	Screw terminal	LC4HL-R4-AC24VS
				12 to 24 V DC		8 pins	LC4HL8-R4-DC24V LC4HL-R4-DC24V
				12 to 24 V DC		11 pins	
4					-	Screw terminal	LC4HL-R4-DC24VS
				100 +- 040 \/ 40		8 pins	LC4HL8-T4-AC240V
				100 to 240 V AC		11 pins	LC4HL-T4-AC240V LC4HL-T4-AC240VS
		Maintain			-	Screw terminal 8 pins	LC4HL8-T4-AC24V
		output/hold count	Transistor	24 V AC/DC		11 pins	LC4HL8-14-AC24V
		Maintain	(1a)	24 V AC/DC		Screw terminal	LC4HL-T4-AC24VS
		output/over count I			-	8 pins	LC4HL8-T4-AC24VS
		Maintain		12 to 24 V DC		11 pins	LC4HL-T4-DC24V
	30 Hz (cps)/	output/over count II		12 to 24 V DC		Screw terminal	LC4HL-T4-DC24VS
	5 KHz (Kcps)	One shot/over			Available	8 pins	LC4HL8-R6-AC240V
	switchable	count		100 to 240 V AC		11 pins	LC4HL-R6-AC240V
		One shot/recount I		100 to 240 V AC		Screw terminal	LC4HL-R6-AC240VS
		One shot/recount II			-	8 pins	LC4HL8-R6-AC24V
		One shot/hold	Relay	24 V AC/DC		11 pins	LC4HL-R6-AC24V
		count	(1c)	24 V AC/DC		Screw terminal	LC4HL-R6-AC24VS
		(7 modes)			-	8 pins	LC4HL8-R6-DC24V
				12 to 24 V DC		11 pins	LC4HL-R6-DC24V
				12 10 24 V DC		Screw terminal	LC4HL-R6-DC24VS
6					-	8 pins	LC4HL8-T6-AC240V
				100 to 240 V AC		11 pins	LC4HL-T6-AC240V
				100 to 240 V AC		Screw terminal	LC4HL-T6-AC240VS
					+	8 pins	LC4HL8-T6-AC24V
			Transistor	24 V AC/DC		11 pins	LC4HL-T6-AC24V
			(1a)	24 V AU/DU		Screw terminal	LC4HL-T6-AC24VS
					-	8 pins	LC4HL8-T6-DC24V
				12 to 24 V DC		11 pins	LC4HL-T6-DC24V
				12 to 24 V DO		Screw terminal	LC4HL-T6-DC24VS

^{*} A rubber gasket (ATC18002) and a mounting frame (AT8-DA4) are included.

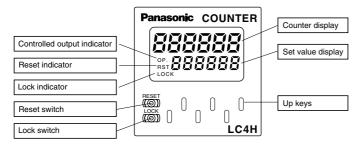
Part names

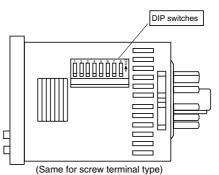
• 4-digit display type





• 6-digit display type





Specifications

	Item		Ralay ou	tput type	Transistor output type				
	item		AC type	DC type	AC type	DC type			
	Rated opera	ting voltage	100 to 240 V AC, 24 V AC	12 to 24 V DC	100 to 240 V AC, 24 V AC	12 to 24 V DC			
	Rated freque	ency	50/60 Hz common	_	50/60 Hz common	_			
	Rated power	consumption	Max. 10 V A	Max. 3 W	Max. 10 V A	Max. 3 W			
	Rated contro	ol capacity	5 A 250 V AC ((resistive load)	100 mA	30 V DC			
	Input mode		Addition (UP)/Subtraction (DOWN)/Direction (DIR)/Individuality (IND)/Phase (PHASE) 5 modes selectable by DIP switch						
	Max. counting speed		30 Hz/5 kHz (selectable by DIP switch)						
	Counting inp	ut (Input 1, 2)	Min. input signal width: 16.7 ms at 30 Hz/0.1 ms at 5 kHz, ON time: OFF time = 1:1						
Rating	Reset input			Min. input signal width: 1 ms,	20 ms (selected by DIP switch)				
ialing	Lock input			Min. input sign	al width: 20 ms				
	Input signal				e: 1 k Ω or less, Input residual vole, Max. energized voltage: 40 V [
	Output mode		HOLD-A/HOLD-B/	HOLD-C/SHOT-A/SHOT-B/SH	OT-C/SHOT-D (7 modes selecta	ble by DIP switch)			
	One shot output time			Appro	ox. 1 s				
	Indication		7-segment L	.CD, Counter value (backlight re	ed LED), Setting value (backlight	yellow LED)			
	Digit		4-digit display type –999 to 9999 (–3 digits to +4 digits) (0 to 9999 for setting) 6-digit display type –99999 to 999999 (–5 digits to 6 digits) (0 to 999999 for setting)						
	Memory		EEP-ROM (Overwriting times: 10 ^s ope. or more)						
	Contact arrangement		1 For	rm C	1 Form A (Open collector)				
Contact	Initial contact resistance		100 mΩ (at 1 A 6 V DC) —			_			
	Contact material		Ag alloy/	Au flush	_	_			
_ife	Mechanical (contact)		2 × 10 ⁷ ope. (Except for	switch operation parts)	_				
.110	Electrical (co	ontact)	10⁵ ope. (At rated	d control voltage)	10 ⁷ ope. (At rated control voltage)				
	Allowable opera	ting voltage range	85 to 110 % of rated operating voltage						
-lo atvical	Break down voltage (Initial value)		Between live and dead metal parts: Between input and output Between open contacts	ut: 2,000 Vrms for 1 min	between live and dead metal parts	: 2,000 Vrms for 1 min (11-pin typut: 2,000 V AC for 1 min			
Electrical	Insulation res (At 500 V DO value)		Between live and dead metal pa Between input and o Between open con	output: Min. 100 MΩ	Between live and dead metal parts: Min. 100 M Ω (11-pir Between input and output: Min. 100 M Ω				
	Temperature	rise	Max. 65° C (under the flow of nominal operating current at nominal voltage)						
	Vibration	Functional	10 to	o 55 Hz (1 cycle/min), single am	nplitude: 0.35 mm (10 min on 3 axes)				
Mechanical	resistance	Destructive	10	to 55 Hz (1 cycle/min), single a	amplitude: 0.75 mm (1 h on 3 axe	es)			
nechanicai	Shock	Functional		Min. 98 m 321.522 ft.	/s² (4 times on 3 axes)				
	resistance Destructive		Min. 294 m 964.567 ft./s² (5 times on 3 axes)						
Operating	Ambient temperature		−10° C to 55° C +14° F to +131° F						
	Ambient humidity			Max. 85 % RH (non-condensing)				
conditions	Air pressure			860 to 1	,060 h Pa				
	Ripple rate		_	20 % or less	_	20 % or less			
Connection			8-pin/11-pin/screw terminal						
Protective co	onstruction			IP66 (front panel w	rith a rubber gasket)				

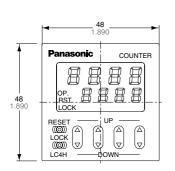
Applicable standard

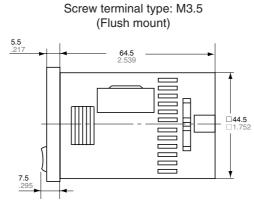
Safety standard	EN61812-1	Pollution Degree 2/Overvoltage Category II
	(EMI)EN61000-6-4	
	Radiation interference electric field strength	EN55011 Group1 ClassA
	Noise terminal voltage	EN55011 Group1 ClassA
	(EMS)EN61000-6-2	·
	Static discharge immunity	EN61000-4-2 4 kV contact
	,	8 kV air
	RF electromagnetic field immunity	EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz)
	·	10 V/m pulse modulation (895 MHz to 905 MHz)
EMC	EFT/B immunity	EN61000-4-4 2 kV (power supply line)
	, ,	1 kV (signal line)
	Surge immunity	EN61000-4-5 1 kV (power line)
	Conductivity noise immunity	EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz)
	Power frequency magnetic field immunity	EN61000-4-8 30 A/m (50 Hz)
	Voltage dip/Instantaneous stop/Voltage fluctuation immunity	EN61000-4-11 10 ms, 30% (rated voltage)
		100 ms, 60% (rated voltage)
		1,000 ms, 60% (rated voltage)
		5,000 ms, 95% (rated voltage)

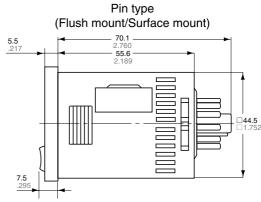
Dimensions

• 4-digit display type

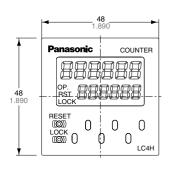
 $$\operatorname{\textsc{mm}}$ inch General tolerance: $\pm 1.0 \pm .039$

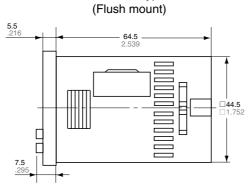




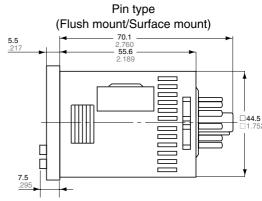


• 6-digit display type





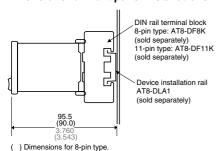
Screw terminal type: M3.5



• Dimensions for flush mounting (with adapter installed)

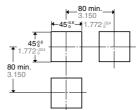
Screw terminal type: M3.5 Pin type Rubber gasket ATC18002 (supplied Rubber gasket Mounting frame for flush mount AT8-DA4 (supplied) 8-pin type (8p cap AD8-RC sold separately) Mounting frame ATC18002 (supplied for flush mount AT8-DA4 (supplied) 11-pin type (11p cap AT8-DP11 sold separately) COUNTER COUNTER 田田田 Ħ Ħ BBBBBB BBBB ##### 48 □44.5 48 50 RESET ((0)) LOCK ((0)) LC4H 0 0 0 L<u>C4H</u> COCK O Þ **48** 63.5 .48_ 890

. Dimensions for front panel installations

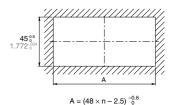


• Installation panel cut-out dimensions

The standard panel cut-out dimensions are shown below. Use the mounting frame (AT8-DA4) and rubber gasket (ATC18002)



· For connected installations



Note 1: The installation panel thickness should be between 1 and 5 mm .039 and .197 inch.

Note 2: For connected installations, the waterproofing ability between the unit and installation panel is lost.

Terminal layouts and Wiring diagrams

Transistor output type

3⁴5

Input 2-

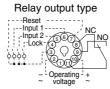
• 8-pin type

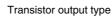
Relay output type

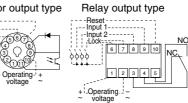
3 6 2 7 1 8

--Input 2--------Input 1---Reset 4 5

• 11-pin type

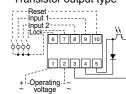






Screw terminal type

Transistor output type



Note) For connecting the output leads of the transistor output type, refer to 5) Transistor output on page 141.

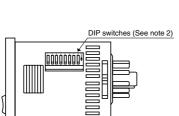
Setting the operation mode and set value

Setting procedure 1) Setting the operation mode (input mode and output mode)

Set the input and output modes with the DIP switches on the side of the counter.

DIP switches

	ltem	DIP switch			
	item	OFF	ON		
1					
2	Output mode	Refer to table 1			
3					
4	Minimum reset input signal width	20 ms	1 ms		
5	Maximum counter speed	30 Hz 5 kHz			
6					
7	Input mode	Refer to table 2			
8					



(Same for 6-digit and screw terminal types)

Table 1: Setting the output mode

	DI	P switch N	۱o.	Output mode
	1	2	3	Output mode
	ON	ON	ON	SHOT-A
\exists	OFF	OFF	OFF	SHOT-B
	ON	OFF	OFF	SHOT-C
	OFF	ON	OFF	SHOT-D
	ON	ON	OFF	HOLD-A
	OFF	OFF	ON	HOLD-B
I	ON	OFF	ON	HOLD-C
	OFF	ON	ON	— (See note 1)

Table 2: Setting the input mode

DI	P switch N	No.	Input mode
6	7	8	input mode
ON	ON	ON	Addition input
OFF	OFF	OFF	Subtraction input
ON	OFF	OFF	Directive input
OFF	ON	OFF	Independent input
ON	ON	OFF	Phase input
OFF	OFF	ON	— (See note 1)
ON	OFF	ON	— (See note 1)
OFF	ON	ON	— (See note 1)

Notes:1) The counter and set value displays will display DIP Err.

- 2) Set the DIP switches before installing the counter on the panel.
 3) When the DIP SW setting is changed, turn off the power once.
 4) The DIP switches are set as ON before shipping.

Setting procedure 2) Setting the set value

Set the set value with the UP and DOWN keys on the front of the counter.

Front display section

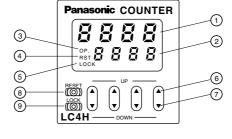
• 4-digit display type

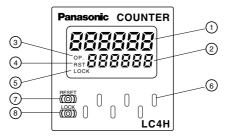
- 1 Counter display
- (2) Set value display
- 3 Controlled output indicator
- (4) Reset indicator
- (5) Lock indicator
- 6 UP keys

Changes the corresponding digit of the set value in the addition direction (upwards).

• 6-digit display type

- 1 Counter display
- (2) Set value display
- 3 Controlled output indicator
- 4 Reset indicator
- (5) Lock indicator





· Changing the set value

1. It is possible to change the set value with the up and down keys (4digit type only) even during counting. However, be aware of the following

1) If the set value is changed to less than the count value with counting set to the addition direction, counting will continue until it reaches full scale (9999 with the 4-digit type and 999999 with the 6-digit type), returns to zero, and then reaches the new set value. If the set value is changed to a value above the count value, counting will continue until the count value reaches the new set value.

- 2) Suppose that the counter is preset to count down. Whether a preset countdown value is smaller or larger than the count value, the counter counts down to "0(Zero)"
- 2. If the set value is changed to "0," the unit will not complete count-up. It starts counting up when the counting value comes to "0 (Zero)" again.
- 1) Up-count (addition) input when counting is set to the addition direction, counting will continue until full scale is reached (9999 with the 4-digit type and 999999 with the 6-digit type), return to zero, and then complete count-up.

(7) DOWN keys

Changes the corresponding digit of the set value in the subtraction direction (downwards).

- (8) RESET switch Resets the counting value and the output.
- 9 LOCK switch Locks the operation of all keys on the counter.

6 UP keys

Changes the corresponding digit of the set value in the addition direction (upwards).

7 RESET switch

Resets the counting value and the output.

- (8) LOCK switch Locks the operation of all keys on the counter.
- 2) Down-count (subtraction) input when counting is set to the subtraction direction, counting will continue until full scale is reached (-999 with the 4-digit type and -99999 with the 6-digit type), and then the display will change to - - - with the 4-digit type and ---- with the 6-digit type. The counting value does not become "0" and so the counter does not count up.
- 3) For directive, independent, and phase input, when the counting value increases or decreases from the value "0" and then returns back to the value "0," count-up is completed.

Operation modes

1. Input mode
For the input mode, you can choose one of the following five modes

 Addition UP • Subtraction DOWN DIR • Directive • Independent IND • Phase PHASE

Input mode	Operation	*Minimum input signal width 30 Hz: 16.7 ms; 5 kHz: 0.1 ms
Addition UP	IN1 or IN2 works as an input block (gate) for the other input.	• Example where IN1 is the count counting and IN2 is the input block (gate). IN1 H A A A A A A Blocked Counting (addition) 0 1 2 3 n-3 n-2 n-1 n Counting (subtraction) Reset A Counting (subtraction)
Subtraction DOWN		Example where IN2 is the counting input and IN1 is the input block (gate). IN1
Directive DIR	IN1 is the counting input and IN2 is the addition or subtraction directive input. IN2 adds at L level and subtracts at H level.	IN1 H Addition AAA Subtraction AAA Addition Addition O 1 2 3 4 3 2 1 0 1 2 3 4 Addition AReset * "A" must be more than the minimum input signal width.
Independent IND	IN1 is addition input and IN2 is subtraction input.	* IN1 and IN2 are completely independent, so there is no restriction on signal timing.
Phase PHASE	Addition when the IN1 phase advances beyond IN2, and subtraction when the IN2 phase advances beyond IN1.	* "B" must be more than the minimum input signal width.

LC4H/-L

2. Output mode

• One shot/hold count

For the output mode, you can choose one of the following seven modes

SHOT-D

Maintain output/hold count
 Maintain output/over count I
 Maintain output/over count II
 One shot/over count I
 One shot/recount I
 One shot/recount I
 SHOT-B
 SHOT-C

Output mode	Operation	/Evom	nle when in	nut ma	do is s	therad	dition o	r cubtro	ction)		
Output mode	Operation	(Example when input mode is either addition or subtraction)									
	Output control is maintained after count-up completion and until resetting.	Counting (addition)		n-3	n-2	n-1		n			
Maintain output Hold count HOLD-A	During that time, the count display does not change from that at count-up com-	Counting (subtraction)		3	2	1	0				
	pletion.	Counting able/unable	•	Able			! ! ! ◀	Unable			
		Output control	OFF				ON				
		* n: Set value	<u></u>								
	Output control is maintained after count-up completion and until resetting.	Counting (addition)		n-2	n-1	n	n+1	n+2			
Maintain output	However, counting is possible despite	Counting (subtraction)		2	1	0	-1	-2			
Over count I	completion of count-up.	Counting able/unable				I Able					
HOLD-B		_	4			ION			•		
		* n: Set value	OFF								
	0	n: Set value									
	Output control is maintained after count-up completion and until the next	Counting (addition)		n-2	n-1	n	n+1	n+2			
Maintain output	signal enters. However, counting is	Counting (subtraction)		2	1	0	-1	-2			
Over count II	possible despite completion of count- up.	Counting able/unable				Able					
HOLD-C						ON	i				
		Output control * n: Set value	OFF				OFF				
	Output control is maintained after				I	I		I			
	count-up completion for a fixed time (approx. 1 sec). Counting is possible despite completion of count-up.	Counting (addition)		n-2	n-1	n	n+1	n+2			
One shot		Counting (subtraction)		2	1	0	-1	-2			
Over count		Counting able/unable	•			Able		! ! !			
SHOT-A		Output control	OFF			ON		l OFF			
		* n: Set value	011			Appr	ox. 1s	011			
	Output control is maintained after								T		
	Output control is maintained after count-up completion for a fixed time	Counting (addition)		n-2	n-1	0	1	2			
One shot	(approx. 1 sec). Counting is possible despite completion of count-up.	Counting (subtraction)		2	1	n	n-1	n-2			
Recount I	However, reset occurs simultaneous	Counting able/unable	_		2	Able Able	automatic)				
SHOT-B	with completion of count-up. While out- put is being maintained, restarting of	Ü				ION		loss	*		
	the count is not possible	Output control * n: Set value	OFF			Appr	ox. 1s	OFF			
	Output control is maintained after	Counting (addition)					0	·	l		
	count-up completion for a fixed time			n-1	n	n+1					
One shot	(approx. 1 sec). Counting is possible despite completion of count-up.	Counting (subtraction)		1	0	-1	n A Dt/-	n-1			
Recount II SHOT-C	However, reset occurs simultaneous	Counting able/unable				Able .		AReset (automatic)			
	with output OFF.		0		ON		OFF				
		Output control * n: Set value	OFF		Appr	ox. 1s	OF I				
	Output control is maintained after	Counting (addition)		n-1		>		1			
One shot	count-up completion for a fixed time			11-1	l	n					
	(approx. 1 sec). During that time, the	Counting (subtraction)		1		0	n n	n-1			
Hold count SHOT-D	count display does not change from that at count-up completion. Reset	Counting able/unable	Able	<u>. </u>	I I Una	able _	Reset (a	automatic) Able			
[ט-וטרוט	occurs simultaneous with output OFF.		4	$\overline{}$	ION		OFF				
		Output control * n: Set value	OFF		Appr	ox. 1s	UFF				
		11. OCT VAIUE	* n: Set value								

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