

Digital Indicating Controller LT45A/47A SERIES



LT45A/47A series is digital indicating controller with indicating accuracy of $\pm 0.1\%$ and the control cycle of approximately 0.1 second.

3 types of auto tuning functions and overshoot suppression functions achieve superior control stability.

Combination of internal computing function and enriched input and output option support various usage scenarios.

Special loader software provides ease of setting operations and data acquisition.

FEATURES

Compact design

Short depth of instrument (case 65mm) saves the space of instrument and control board.

Universal input

Input type is user-changeable from among thermocouple, resistance thermometer, DC voltage and DC current.

Outstanding controllability

Control system can be selected from two-position control and PID control.

It has overshoot suppression function and high-functional PID.

3 types of auto tuning

Can be selected from normal, rapid-response, stable tuning on the control target.

Various input / output signal (optional) are available.

Current transformer input 2 points, event output 3 points (Max), remote signal input 4 points and communication interface (RS485).

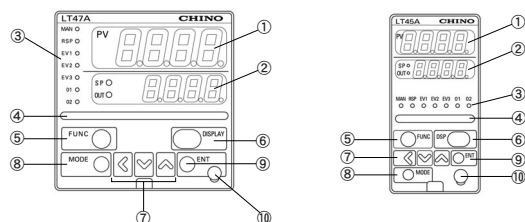
Conformance to international safety standards

CE marking, RoHS

Loader software is available

Various parameter settings and data acquisition can be done easily using loader software (sold separately).

PARTS NAMES OF FUNCTIONS



- ① Upper display: Displays PV values (temperature, etc.).
- ② Lower display: Displays SP values (preset temperature, etc.) or setting items.
- ③ Status display lamp: MAN: Lights when MANUAL (manual mode).
RSP: Lights when remote SP input. (Local SP input when light OFF)
EV1 to EV3: Lights when event outputs are ON
O1 to O2: Lights when the control output is ON
- ④ Multiple functions indicating lamp: Lights when the control output is ON
User-settable max. 3 sets combination of condition and status as preferred functions (alarm, READY, etc.).
- ⑤ [FUNC] key: Press 1 second or longer, then enters frequently used functions and operations set in advance. The function is disabled at factory default.
- ⑥ [DISPLAY]/[DSP] key: Switch display in operation mode. Or back to operation mode from parameter setting mode.
- ⑦ [MODE] key: Switches the display
- ⑧ <, V, ^ Key: Used for incrementing numeric values and performing arithmetic shift operation.
- ⑨ [ENT] key: Start to change setting and set value.
- ⑩ Loader connector: Connects to a personal computer by using USB loader cable.



MODELS

LT45A

/LT47A

	Measur- ing input	Control output	I/O option	Terminal type	Power	Extra	Specifications	
LT45A							48mmX96mm front size	
LT47A							96mmX96mm front size	
0							Universal input	
							Control output 1	Control output 2
							ON-OFF pulse output	—
*3							ON-OFF servo output	—
							SSR drive pulse output	—
							SSR drive pulse output	Current output
							SSR drive pulse output	SSR drive pulse output
							SSR drive pulse output	Voltage output
							Current output	—
							Current output	Current output
							Current output	Voltage output
							Voltage output	—
							Voltage output	Voltage output
							Event output 3 points	
							Event output 3 points, Transmission signal output (current output)	
							Event output 3 points, Transmission signal output (voltage output)	
*3,5							Event output: 2 points (independent contact)	
*3							Event output: 2 points (independent contact), Transmission signal output (current output)	
*3							Event output: 2 points (independent contact) Transmission signal output (voltage output)	
0							—	
*1,2							Current transformer input: 2 points, External signal input: 4 points	
*1,2							Current transformer input: 2 points, External signal input: 4 points, Communication interface RS485	
*1,2							Current transformer input: 2 points, External signal input: 2 points, Remote signal input	
							Current transformer input: 2 points, External signal input: 2 points, Remote signal input, Communication interface RS485	
0							Terminal block type	
						A	100 to 240V AC, Terminal block type	
						D	24V AC/DC, Terminal block type	
						00	No additional treatment	
						Y0	Complying with the traceability certification	
						T0	Tropical treatment	
						K0	Sulfur resistance treatment	

*1: Current transformer is sold separately.
*2: Current transformer input not available when ON-OFF servo output is selected as control output. Then it becomes motorized feedback input.
*3: 24V AC/DC power supply can not be selected.
*4: Non-conforming to CE, UL/cUL.
*5: Event output are 2 types, specify models of 3 point (common) or 2 points (independent).

