

Technical drawing of the RLA-COVER (96x96mm) showing top and side views with dimensions A, B, C, D, and a table of model specifications.

Top View Dimensions:

- A: Width of the main body
- B: Height of the main body
- C: Width of the mounting flange
- D: Height of the mounting flange

Side View Dimensions:

- 94: Total width of the cover
- 91.5: Total height of the cover
- 3: Thickness of the mounting flange
- 86: Height of the main body
- 13: Height of the mounting flange

Model Specifications Table:

Model	Size	A	B	C	D
TK4N	55	37	45 ^{+0.3} ₋₀	22.2 ^{+0.3} ₋₀	
TK4S	65	65	45 ^{+0.3} ₋₀	45 ^{+0.3} ₋₀	
TK4S (P)	65	65	45 ^{+0.3} ₋₀	45 ^{+0.3} ₋₀	
TK4M	90	90	68 ^{+0.3} ₋₀	68 ^{+0.3} ₋₀	
TK4H	65	115	45 ^{+0.3} ₋₀	92 ^{+0.3} ₋₀	
TK4W	115	65	92 ^{+0.3} ₋₀	45 ^{+0.3} ₋₀	
TK4L	115	115	92 ^{+0.3} ₋₀	92 ^{+0.3} ₋₀	

The diagram illustrates the parameter setting sequence for the device, starting from the RUN mode. The process involves pressing the **MODE** key for 2 seconds to enter the setting mode, then pressing the **PR55** key (or **PR5** key) to move between parameter groups. The sequence is as follows:

- Press any key among **PR55**, **PR5**, **PR55**, or **PR5** to return to password mode. Press the **MODE** key to return to RUN mode.
- Press the **MODE** key for 2 seconds in RUN mode to enter setting mode.
- Press the **MODE** key for 1.5 seconds while in setting mode to move to the next parameter group.
- Press the **MODE** key for 3 seconds while in setting mode to return to RUN mode.
- Press the **MODE** key at the lowest level of parameter to move parameter group screen and press **PR55** or **PR5** key to move to other parameter group.
- If there is no additional key operation within 30 sec after entering into setting mode, it will be automatically returned to RUN mode and previous set value will be remained.
- The not-shaded parameters may not be displayed by other parameters setting, parameter mask setting.

The parameter groups are organized into five main sections, each with a 3-second **MODE** key timeout:

- Group 1 (PR55):** Includes parameters like **Control output RUN/STOP**, **Auto-tuning RUN/STOP**, **Input type**, **Alarm output1 operation mode**, and **Multi SV**.
- Group 2 (PR5):** Includes parameters like **Heating proportional band**, **Cooling proportional band**, **Analog low-limit input value**, **Alarm output1 hysteresis**, and **DI-1 input terminal function**.
- Group 3 (PR5):** Includes parameters like **Sensor temperature unit**, **Analog high-limit input value**, **Scaling decimal point**, **Low-limit scale value**, and **High-limit scale value**.
- Group 4 (PR5):** Includes parameters like **Alarm output1 option**, **Alarm output2 hysteresis**, **Alarm output2 option**, **Alarm output3 hysteresis**, and **Alarm output3 option**.
- Group 5 (PR5):** Includes parameters like **Digital input key**, **Control stop**, **Parameter 1 group lock**, **Parameter 2 group lock**, **Parameter 3 group lock**, **Parameter 4 group lock**, **Parameter 5 group lock**, and **Password setting**.

The diagram also shows the flow between these groups and the final return to RUN mode. The **MODE** key is used to navigate between groups, and the **PR55** or **PR5** key is used to move between parameters within a group. The **MODE** key is also used to return to RUN mode from the setting mode.

Input type		Decimal point	Display	Input range (°C)	Input range (°F)
Thermocouple	K (CA)	1	$\overline{E}CRH$	-200 to 1350	-328 to 2463
		0.1	$\overline{E}CRL$	-199.9 to 999.9	-199.9 to 999.9
	J (IC)	1	$\overline{J}IC.H$	-200 to 800	-328 to 1472
		0.1	$\overline{J}I.C.L$	-199.9 to 800.0	-199.9 to 999.9
	E (CR)	1	$\overline{E}C.r.H$	-200 to 800	-328 to 1472
		0.1	$\overline{E}C.r.L$	-199.9 to 800.0	-199.9 to 999.9
	T (CC)	1	$\overline{E}CC.H$	-200 to 400	-328 to 752
		0.1	$\overline{E}CC.L$	-199.9 to 400.0	-199.9 to 752.0
	B (PR)	1	$\overline{b}Pr$	0 to 1800	32 to 3272
	R (PR)	1	$\overline{r}Pr$	0 to 1750	32 to 3182
	S (PR)	1	$\overline{s}Pr$	0 to 1750	32 to 3182
	N (NN)	1	$\overline{n}nn$	-200 to 1300	-328 to 2372
	C (TT) ^{*1}	1	$\overline{C}t.t$	0 to 2300	32 to 4172
	G (TT) ^{*2}	1	$\overline{G}t.t$	0 to 2300	32 to 4172
L (IC)	1	$\overline{L}I.C.H$	-200 to 900	-328 to 1652	
	0.1	$\overline{L}I.C.L$	-199.9 to 900.0	-199.9 to 999.9	
U (CC)	1	$\overline{U}CC.H$	-200 to 400	-328 to 752	
	0.1	$\overline{U}CC.L$	-199.9 to 400.0	-199.9 to 752.0	
Platinel II	1	$\overline{P}L.t.t$	0 to 1390	32 to 2534	
RTD	Cu 50Ω	0.1	$\overline{C}U.5$	-199.9 to 200.0	-199.9 to 392.0
	Cu 100Ω	0.1	$\overline{C}U.10$	-199.9 to 200.0	-199.9 to 392.0
	JPT 100Ω	1	$\overline{j}P.t.H$	-200 to 650	-328 to 1202
		0.1	$\overline{j}P.t.L$	-199.9 to 650.0	-199.9 to 999.9
	DPT 50Ω	0.1	$\overline{d}P.t.5$	-199.9 to 600.0	-199.9 to 999.9
		1	$\overline{d}P.t.H$	-200 to 650	-328 to 1202
	DPT 100Ω	0.1	$\overline{d}P.t.L$	-199.9 to 650.0	-199.9 to 999.9
		Nickel 120Ω	1	$\overline{n}l.12$	-80 to 200
Analog	Voltage	0-10V	$\overline{R}u.1$	-1999 to 9999 (Display point will be changed according to decimal point position.)	
		0-5V	$\overline{R}u.2$		
		1-5V	$\overline{R}u.3$		
		0-100mV	$\overline{R}\overline{n}.u.1$		
	Current	0-20mA	$\overline{R}\overline{n}\overline{R}.1$		
		4-20mA	$\overline{R}\overline{n}\overline{R}.2$		

When power is supplied, whole display parts flash for 1 sec. Afterwards, model name and input sensor type will be flash twice and then in enters into RUN mode.



① Whole display part



② Model type display



③ Input type display twice



④ Run mode

■ Set Value (SV) Setting

You can set the temperature to control with $\boxed{\text{K}}$, $\boxed{\text{V}}$, $\boxed{\Delta}$ keys.
 Set range is within SV low-limit value [$\text{L} - 5\text{u}$] to SV high-limit value [$\text{H} - 5\text{u}$].
 Ex) In case of changing set temperature from 210°C to 250°C

①



Press any key among $\boxed{\text{K}}$, $\boxed{\text{V}}$, $\boxed{\Delta}$ in RUN mode to enter into SV setting mode.
 Last digit (10⁰ digit) on SV display part flashes.



②



Press $\boxed{\text{K}}$ key to move digit (10⁰ → 10¹ → 10² → 10³ → 10⁰)

③



Press $\boxed{\text{V}}$, $\boxed{\Delta}$ key to raise or lower the set value.



④



Press $\boxed{\text{MODE}}$ key to save the set value.
 If there is no additional key operations in 3 sec., the changed SV is automatically saved.



■ Parameter Reset

Press $\boxed{\text{K}}$ + $\boxed{\text{V}}$ + $\boxed{\Delta}$ to reset all parameters in memory to default value.
 Set [$\text{I} \text{ n i t}$] parameter to '955' to reset all parameters.
 In case password function is on, it is required to enter valid password to reset parameters.
 Password is also reset.

*Condition of re-applied standby sequence for standby sequence 1, alarm latch and standby sequence 1: Power ON
Condition of re-applied standby sequence for standby sequence 2, alarm latch and standby sequence 2: Power ON,
changing set temperature, alarm temperature [A_L - 1, A_L - 2] or alarm operation [A_L - 1, A_L - 2], switching STOP mode to RUN mode.

- Photocentric Sensors
- Fiber Optic Sensors
- Door Sensors
- Door Side Sensors
- Area Sensors
- Proximity Sensors
- Pressure Sensors
- Rotary Encoders
- Connector/Sockets
- Switching Mode Power Supplies
- Control Switches/Lamp Drivers
- I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controllers
- Graphic/Logic Panels
- Field Network Devices
- Laser Marking System (Fiber, CO₂, Nd: YAG)
- Laser Welding/Cutting System
- Temperature Controllers
- Temperature/Humidity Transducers
- SSRs/Power Controllers
- Counters
- Timers
- Panel Meters
- Tachometer/Pulse (Rate) Meters
- Display Units
- Sensor Controllers

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