SHICO.

MODEL : STL-N550 series

AUTOMATIC CONTROL SWITCHES (TEMPERATURE SWITCHES)

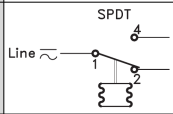
■ INTRODUCTION

RT Temperature controls incorporate a temperature controlled, single-pole changeover switch where the contact position depends on the temperature of the sensor and the set scale value. The RT series consists of temperature controls with room sensors, duct sensors and capillary tube sensors for general industrial and marine applications.

■ FEATURE

- Simple design
- Long operational life time
- High Accuracy
- Available with all major marine approvals
- High repeatability

■ TECHNICAL DATA

AMBIENT TEMP'	-50~70℃
CONTACT SYSTEM	 Single-pole changeover switch
CONTACT LOAD	Alternate current - AC-1 (Ohmic) : 10A, 400V - AC-3 (Inductive) : 2A, 400V - AC-14/15 (Inductive) : 1A, 400V - Blocked rotor : 14A, 400V Direct current - DC-13/14 (Ohmic) : 12W, 230V
CABLE ENTRY	2PG 13.5 for 6~14mm diameter cables
ENCLOSER	IP 66

■ TEMPERATURE CONTROLS WITH CYLINDRICAL REMOTE SENSOR

Setting range (℃)	Adjustable differential range		Max Sensor temp' (℃)	Type of charge	Capillary tube length (m)
	Lowest range set (℃)	Highest range set (℃)			
-60 → -25	1.7 → 7	1 → 3	150	A	2
-45 → -15	2.2 → 10	1 → 4.5	150	A	2
-30 → 0	1.5 → -6	1 → 3	150	A	2
-25 → 15	2.8 → 10	1 → 4	150	A	2~8
-25 ~ 15	2 → 10	2.5 → 1.4	145	B	2~8
-5 ~ 10	1 → 3.5	1 → 3	65	B	2
-5 ~ 30	2 → 8	2 → 10	150	B	2~10
5 ~ 22	1.1 → 3	1 → 3	85	B	2
25 ~ 90	2.4 → 10	3.5 → 20	300	B	2~10
20 ~ 90	4 → 20	2 → 7	120	C	2~5
70 ~ 150	6 → 25	1.8 → 8	215	C	2~10
120 ~ 215	7 → 30	1.8 → 9	260	C	2~8
150 ~ 250	6.5 → 30	1.8 → 9	300	C	2~5
200 ~ 300	5 → 25	2..5 → 10	350	C	2~5

■ FUNCTION

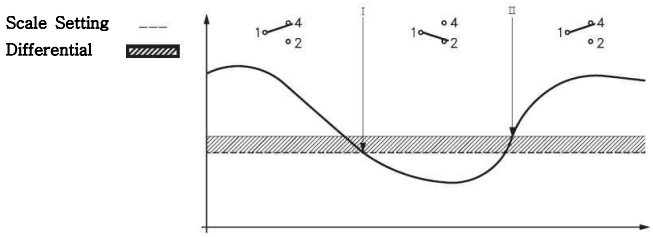
▣ RT Temperature controls with automatic reset

- The RT thermostats are set according to the function required on falling temperature. Contacts 1-4 break while contacts 1-2 make when the temperature falls to the scale setting. The contacts changeover to their initial position when the temperature again rises to the scale setting plus the differential.

※ Contact Function

I. Contact changeover for rising temperature occurs at scale setting plus differential.

II. Contact changeover for falling temperature occurs at scale setting.

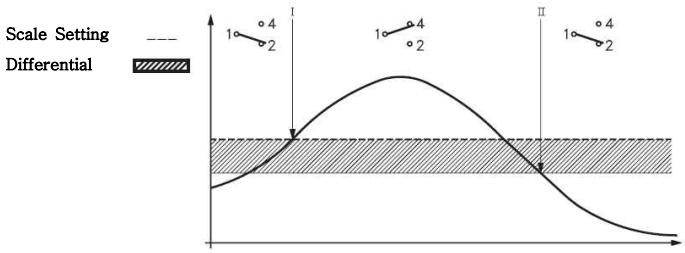


▣ RT Temperature controls with max reset

Contacts 1-4 make while contacts 1-2 break when the temperature exceeds the set range value.
The contacts changeover to their initial position when the temperature falls to the scale value minus the differential.

I. Alarm for rising temperature given at the set value.

II. Alarm for falling temperature given at the set value minus the differential.



※ Manual reset possible only when the temperature has fallen to the range setting minus differential.

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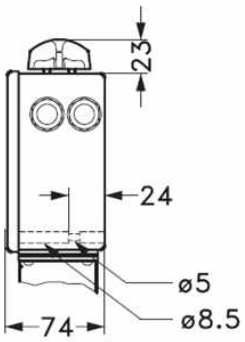
■ APPLICATIONS

RT thermostats are fitted with an adjustable neutral zone. This enables the units to be used for floating control. The terminology involved is explained below.

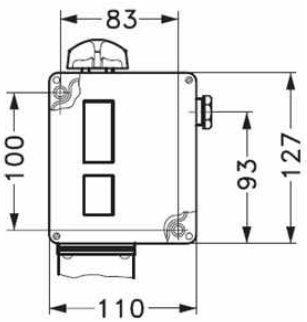
- **Floating control**
  A form of discontinuous control where the correcting element (e.g. valve,damper or similar) moves towards one extreme position at a rate independent of the magnitude of the error when the error exceeds a definite positive and towards the opposite extreme position when the error exceeds a definite negative value.
- **Hunting**
  Periodic variations of the controlled variable from the fixed reference.
- **Neutral zone**
  The interval in the controlled variable in which the correcting element does not respond.
- **Mechanical differential**
  The interval between the values of the controlled variable in which the correcting element does respond.

The contact system in neutral zone units cannot be exchanged, as the contact system adjustment is adjusted to the other parts of the unit.

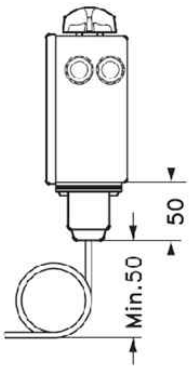
■ DIMENSION



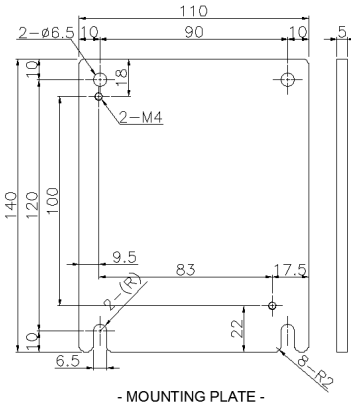
- TOP VIEW -



- SIDE VIEW -



- VIEW OF COMBINATION WITH WELL -



- MOUNTING PLATE -

※ Material : SS304

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