ELECTRONIC TEMPERATURE SWITCH

User Manual for SRTH600-206-2301 & 2302

Product Description

SRTH600-206 Electronic Temperature Switch can monitor gas and liquid temperature. Users can easily set the switching points and hysteresis point. The overload capacity of the temperature switch is from a few uA up to 500mA. It transfers the collected temperature signal into a standard current / voltage signal output at the same time. The display head and connector can rotate freely, which ensure that the products can work well in some difficult-to-install situations as well.

Features

- Adjustment ranges from 0 to full range value
- Repeatability 0.5%
- Long-term stability 0.5%FS per year
- The control output: Relay (NC/NO)
- Analogue output (4-20mA)
- IP65

Thank you for choosing L-com product. To ensure safe, accurate performance and product longevity, please take a moment to familiarize yourself with this manual before powering the device. Please keep it handy for future reference. In case of any questions regarding the installation or use of product, please call us at 800.341.5266.

Reach out to us at customerservice@l-com.com and visit our website at www.l-com.com

M_SRTH600-206-2301&2302_05/2022_R1.0

Signal Output

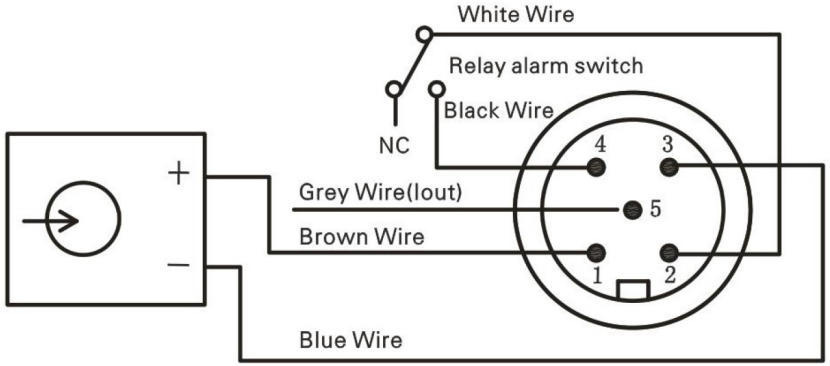
Output mode	Relay（DC30V/1A,AC125V/0.3A）	
Normal state	Normally open (open)	Normally closed (connection)
Alarm status	Normally closed (connection)	Normally open (open)
Analog output	4-20mA	

Electrical Interface

Analogue Output (Relay Output): 4-20 mA

Function		PIN	Color
+Vcc		1	Brown
Switching COM		2	White
GND		3	Blue
Switching out1		4	Black
Signal Output	Analog	5	Grey

Configuration Mode



Key Introduction

- S1 and S2 keys can be used to set the switching output.
- S2 key is used to select the functions and set values.
- S1 key is used to confirm and set the shift operation of display. If a setting is not confirmed within 60 seconds, the unit will automatically exit the setting mode and enter normal measurement mode. The current temperature will be displayed.

Normal Temperature Display Status:

Long press S2 Key, it will show 4 “Zero” for users to set the password, short press S2 Key to change the setting value. S1 key is for adjusting the display location. When the user inputs password “8888”, long press S1 Key to enter the “User Setup”.

- **Exit:** Exits the setting menu and enter into the temperature display interface.
- **Unit:** In Unit set up, there are two setting options (°C/ F), user can choose the actual use of the range.
- **S1:** Setting of the first switching point, user can adjust it according to the actual testing range. When temperature reaches or exceeds the set value, Light S1 on the left will be ON and in an alarm state, the relay or transistor will act. Long press key S1 to enter “Set Menu”, press key S2 to adjust the parameters. Key S1 is for moving location. If all settings are finished, then long press S1 key to confirm.
- **r1:** Setting of the first reset point (hysteresis setting). When the temperature reaches the user-set hysteresis value, the alarm state will be disarmed. The Light S1 on the left will be OFF. Relay and transistor will restore to the original state.
- **S1Cn:** The setting of the first alarm status, user can set according to requirements.

– The setting of relay status are noPn / nCLS (normally open / normally closed). If the relay is noPn, it will close during alarm, if the relay is nCLS, it will open during alarm.

– The setting of transistor status are nPn / PnP settings. If nPn alarm, the output is low-level output. If PnP alarm, the output is high-level output.

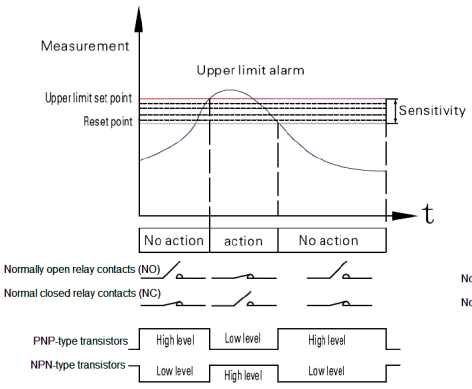
- **S2:** The second way to set the switch point. User can use the temperature range for the deployment. When the temperature reaches or exceeds the set value, the right side of the S2 light alarm status displays. For transistor action, use a relay for S1.
- **r2**: Setting of the second reset point (hysteresis setting). When the temperature reaches the user-set hysteresis value, the alarm state will be disarmed. The Light S2 on the right will be OFF. Relay and transistor will restore to the original state. The status of r2 should not be the same as S2.
- **S2Cn:** The setting of the second alarm status, user can set according to requirements.

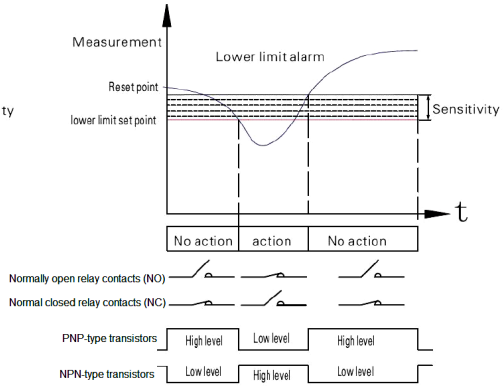
– The setting of relay status are noPn / nCLS (normally open / normally closed). If the relay is noPn, it will close during alarm, if the relay is nCLS, it will open during alarm.

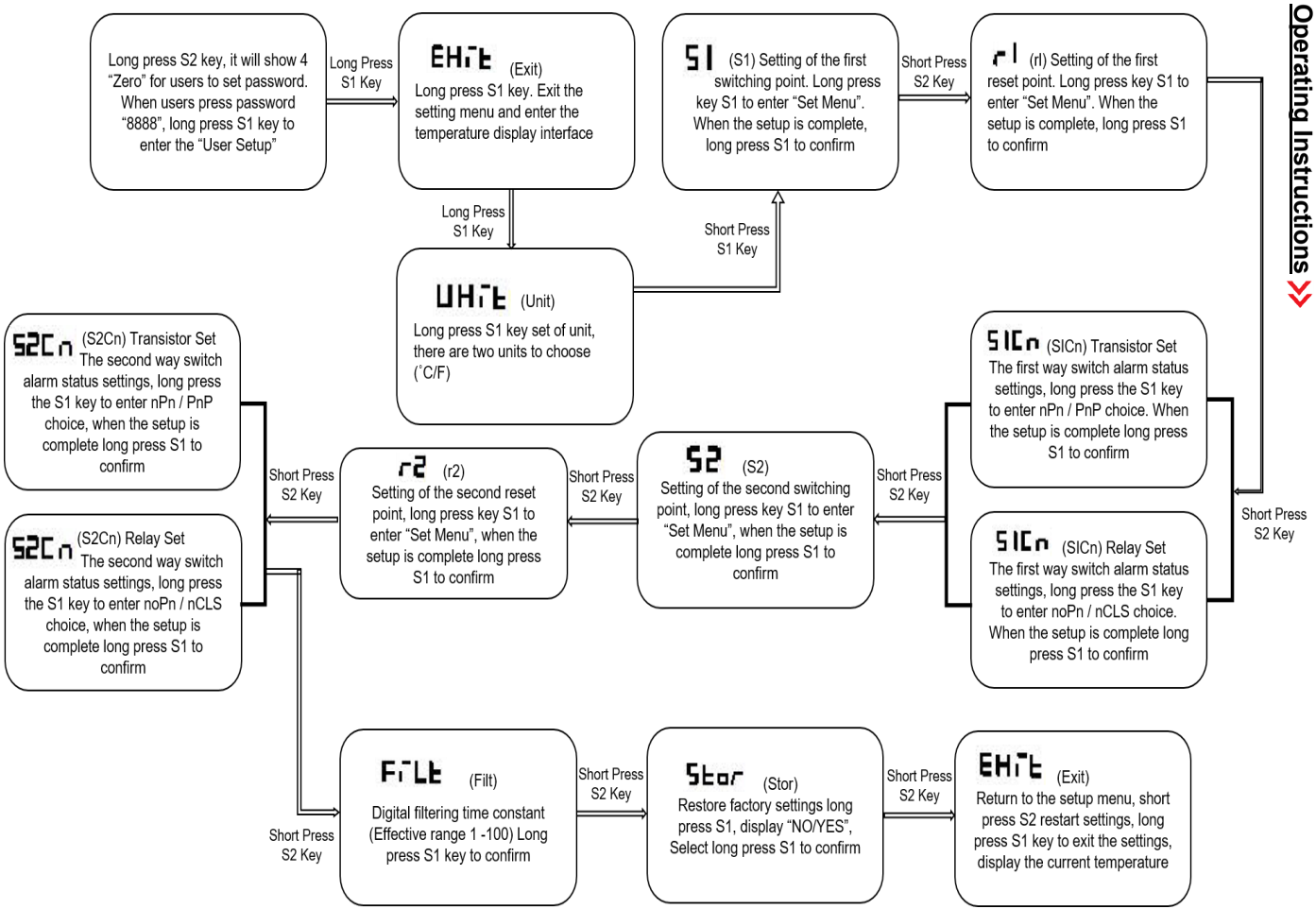
– The setting of transistor status are nPn / PnP settings. If nPn alarm, the output is low-level output. If PnP alarm, the output is high-level output.

- **Filt:** Digital filtering time constant. It is used for overcoming the display fluctuation caused by signal unsteadiness. Smaller the set value, the stronger the effect.
  Valid settings range (1-100), the factory setting is 5.
- **Stor:** To restore factory settings. When the user have changed many parameters and can not be recovered, user can use this button and restore to its original state at the factory.

Alarm Status






Long press S2 key, it will show 4 "Zero" for users to set password. When users press password "8888", long press S1 key to enter the "User Setup"
Long Press S1 Key
EHiE (Exit)
Long press S1 key. Exit the setting menu and enter the temperature display interface
Long Press S1 Key
UHiE (Unit)
Long press S1 key set of unit, there are two units to choose (°C/F)
Short Press S1 Key
S1 (S1) Setting of the first switching point. Long press key S1 to enter "Set Menu". When the setup is complete, long press S1 to confirm
Short Press S2 Key
r1 (rl) Setting of the first reset point. Long press key S1 to enter "Set Menu". When the setup is complete, long press S1 to confirm
Short Press S2 Key
S1Cn (SICn) Transistor Set The first way switch alarm status settings, long press the S1 key to enter nPn / PnP choice. When the setup is complete long press S1 to confirm
S1Cn (SICn) Relay Set The first way switch alarm status settings, long press the S1 key to enter noPn / nCLS choice. When the setup is complete long press S1 to confirm
Short Press S2 Key
S2 (S2) Setting of the second switching point, long press key S1 to enter "Set Menu", when the setup is complete long press S1 to confirm
Short Press S2 Key
r2 (r2) Setting of the second reset point, long press key S1 to enter "Set Menu", when the setup is complete long press S1 to confirm
Short Press S2 Key
S2Cn (S2Cn) Transistor Set The second way switch alarm status settings, long press the S1 key to enter nPn / PnP choice, when the setup is complete long press S1 to confirm
S2Cn (S2Cn) Relay Set The second way switch alarm status settings, long press the S1 key to enter noPn / nCLS choice, when the setup is complete long press S1 to confirm
Short Press S2 Key
FiLt (Filt) Digital filtering time constant (Effective range 1 -100) Long press S1 key to confirm
Short Press S2 Key
Stor (Stor) Restore factory settings long press S1, display "NO/YES", Select long press S1 to confirm
Short Press S2 Key
EHiE (Exit) Return to the setup menu, short press S2 restart settings, long press S1 key to exit the settings, display the current temperature