AposSun

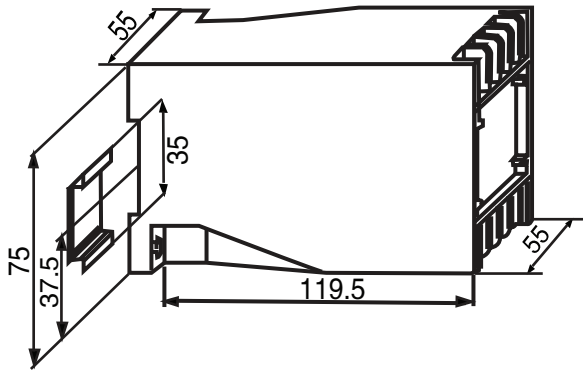# SRTM LED display DIN Rail Transducer
Instruction Manual

SRTM

1 Warning

Please do not turn on the power supply until all of the wiring is completed.
Otherwise electrical shock, fire or malfunction may result.
Do not wire when the power is on. Do not connect the unused terminals.
Do not turn on the power supply when cleaning this instrument. Do not disassemble,
repair or modify the instrument. This may cause electrical shock, fire or malfunction
Use this instrument in the scope of its specifications.
Otherwise fire or malfunction may result.

■ Caution

This instrument should be installed in a domestic environment. Otherwise electrical shock, fire or
malfunction may result. The operating temperature environment should between 0 (32F) to 50 (122F).
To avoid using this instrument in environment full of dust or caustic gas.
To avoid using this instrument in environment of strong shock or concussion.
To avoid using this instrument in environment of overflow water or explosive oil.
Output should start in about 10 seconds after power on when the instrument
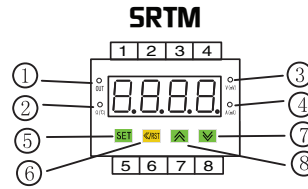has control output function.

2 Size(units:mm)

55, 35, 75, 37.5, 119.5, 55

3 Models

Type	power	analogue	input signal	range
SRTM	□ —	□	□	□

power:
- □ 90–260V AC/DC (default)
- E 18–30V AC/DC

analogue:
- I1 4–20mA
- I2 0–10V

input signal:
- AA AC Curent
- AV AC voltage
- DA DC current
- DV DC voltage
- Tc Tc thermocouple
- RTD RTD

range:
- □ Example: AA5 or AV600.

4 Name of parts

SRTM

Mark		Names	Function
OUT	①	output lamp	output lamp
Ω(℃)	②	indication lamp	Resistance/ temperature lamp,ON:diaplay Ω，flash:℃
V(mV)	③	indication lamp	Voltage lamp ON:display V, flash:mV
A(mA)	④	indication lamp	Current lamp ON: display A,flash:mA
SET	⑤	parameter select /confirm Key	Star or stop parameter setting,change model key
≪/RST	⑥	move key	Move key/clear key/RST key
⩓	⑦	Up Key	Parameter Up Key
⩔	⑧	Down Key	Parameter Down Key

5 Connection Drawing

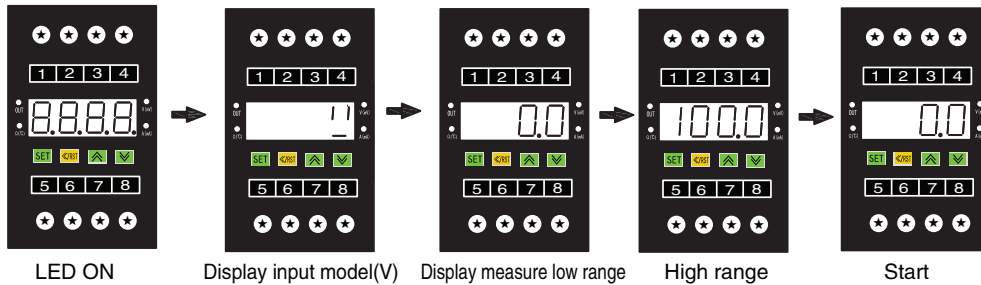Attention:pleasse subject to the diagram on the product if any changes.

DC voltage/current	AC voltage/current	PT100	TC
IntPut − +	IntPut L H	IntPut	IntPut − +
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
5 6 7 8	5 6 7 8	5 6 7 8	5 6 7 8
OutPut AC 90~260V	OutPut AC 90~260V	OutPut AC 90~260V	OutPut AC 90~260V

6 Parameter setting

Power ON

8.8.8.8 Self-check and LED ON

0.0 Display measure Low value

100.0 Display measure High value

90.0 Display measuring value

SET＞3S

Parameter setting menu

P V F Measure modification value
↓ SET
0.0 Modification value,display value=measure value −PVF   range ± 50.0
SET

InP Input signal
↓ SET
0A Input signal by select :
0A、A 0、rt、Pt、b、S、r、t、E、J、K
It means mA、V、A、mV、Rt、Pt、B、S、R、T、E、J、K。
↓ SET
LSP Input Low value
↓ SET
0.0 Input low value setting range:−1999~9999
↓ SET
USP Input High value
↓ SET
100.0 Input High value setting range:−1999~9999
↓ SET
dP Decimal point
SET

000.0 Decimal point by select: 0.000、00.00、000.0、0000
↓ SET
trL Analogue output low value
↓ SET
0.0 Analogue low limit setting range:−1999~9999
↓ SET
trH Analogue output High value
↓ SET
100.0 Analogue High limit setting range:−1999~9999
↓ SET
LcK Parameter lock
↓ SET
010 Lock value:range 0−255 LCK=000 can amend it. LCK=010 only read it.
↓ SET
Return PVF

7 Operation process

1、Power ON

| LED ON | Display input model(V) | Display measure low range | High range | Start |

2、Analogue setting   Example:4 ~ 20 display –50℃ ~ 200℃

| Press SET key > 3S, found ᴵᴵᴵᴵ(trL) | Continue Press SET key | Press RST key 3 times let the 3ᵗʰ flash it. | Perss Down key decrease setting value | Press SET key input setting value |

| Press SET key found ᴵᴵᴵᴵ(trH) | Press RST key 4 times let the 4ᵗʰ flash it. | Perss Up key increase setting value | Press SET key input setting value |
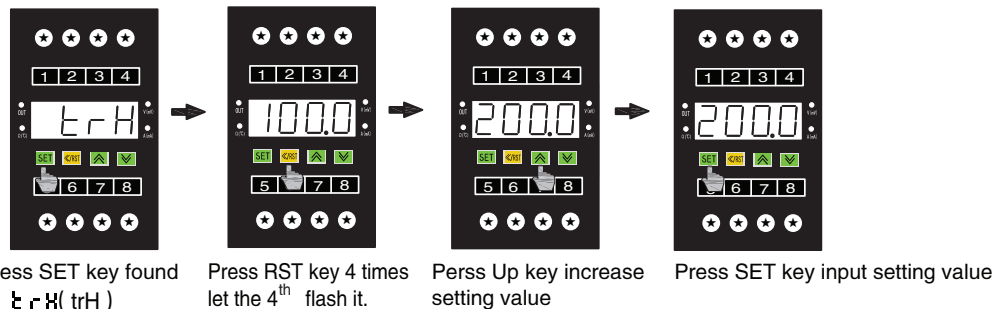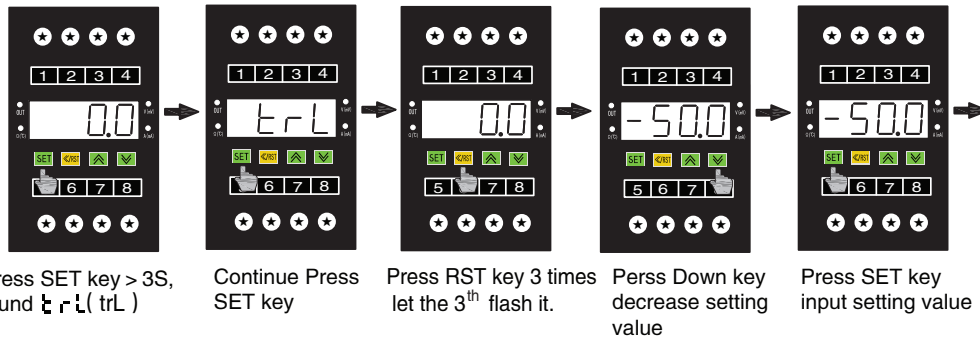
3、Clear zero

Display state without operation, when the input is low limited 0℃,press RST key > 2S then can clear zero.
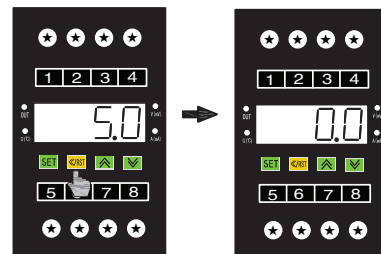
8 Specifications

Power supply	AC/DC 90–260V 50/60Hz (specific order AC/DC 24V)
Consumption	≤5VA
Accuracy	0.3%F.S±2digit
Sampling rate	≤8 times / second.
Display range	–1999 ~ 9999
Overflow display	UUUU
Analogue output	0–5V、0–10V、1–5V、2–10V、4–20mA、0–20mA by select one.default:4–20mA.
Installation model	35mm
Size	120（L）×55（W）×75（H）mm
Weight	Abt 205g
Environment temperature	–10–50℃ 35–85% humidity

		Specification
Input signal	DC voltage	0–2V、0–20V、0–200V、0–600V
	AC voltage	0–2V、0–20V、0–200V、0–600V
	DC current	0–200mA、0–2A、0–5A、0–20A
	AC current	0–200mA、0–2A、0–5A、0–20A
	Thermocouple (TC)	B：600–1700℃
		S：0–1700℃
		R：500–1600℃
		T：0–400℃
		E：0–1000℃
		J：0–1200℃
		K：0–1200℃
	RTD	Pt100：–200 ~ 600℃
	Line resistance	0–400Ω