

**Instruction Manual** 





# INTRODUCTION

The SZ-T77 is aesthetically superior version of their predecessors.

A number of parameters are displayed alphanumerically to set the indicator for specific application

This indicator can be used as Temperature, Humidity and Pressure indicator with below measuring range:

## Temperature Range:

For Parameter	-50.0°C to 99.0 °C
For Display	-50.0°C to 100°C / -58°F to 212°F

# **Humidity Range:**

# SZ-HS-220:

For Parameter	30.0% to 90.0%
For Display	30.0% to 90.0%

## SZ-HS-100/4-20mA:

For Parameter	0.0% to 99.0%
For Display	0.0% to 100%

## 4-20mA Settable Pressure range with Max, allowable as below:

For Parameter	-15 PSI to 600 PSI
For Display	-15 PSI to 600 PSI

## CAUTION

WIRING: The probe and its corresponding wires should never be installed in a conduit next to control or power supply lines. The electrical wiring should be done as shown in the diagram. The power supply circuit should be connected to a protection switch. The terminals admit wires of upto 2.5sg mm

WARNING: Improper wiring may cause irreparable damage and personal injury. Kindly ensure that wiring is done by qualified personnel only

Maintenance: Cleaning: Clean the surface of the controller with a soft moist cloth. Do not use abrasive detergents, petrol, alcohol or solvents

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Controller: Controller should be installed in a place protected by vibration, water and corrosive gasses and where ambient temperature does not exceed the values specified in the technical

Probe: To give a correct reading, the probe must be installed in a place protected from thermal influences, which may affect the temperature to be controlled

(1) Locate & tear out the template of the box (2) Drill through the template (3) Bring required wires between the drilled holes (4) Connect with caution as per wiring diagram on SZ-T77 back cover (5) Holding SZ-T77 at a slight angle, Locate the center of the connector and push into place till a snap action is felt.



# SUGGESTED WIRING (230VAC) | 1 | KEYS 🛔 GND (B) 9 4 Supply 230VAC, 50-60Hz

- PROBE: NTC (SZ-T75)
- " \* "RH Sensor : SZ-HS-100/SZ-HS-220
- RH & Pressure Sensor: 4 20mA Input

Back housing: Black ABS Plastic, Auto-extinguish Housing Connector housing: Polycarbonate Plastic VO Grade

Front Cover : Polycarbonate Plastic VO Grade

: Front: 79 x 130 mm

Dimensions Depth: 51 mm Mounting : Wall mounting

: Screw terminal blocks. < 2.5sq mm terminal only. Connections

FR Grade

: 3 X 2 inches 7 segment display & 7 LEDs for Indication Display

Data storage : Flash APROM Memory

Power input : 230 Vac ±10%, 50-60Hz Standard Operating temp. · 0°C to 60°C (non-condensing) : 20% to 85% (non-condensing) Operating humidity Storage temp : -25.0°C to 60.0°C (non-condensing) Measuring Range : -50.0°C to 100°C / -58°F to 212°F

> (for Temperature) 30.0% to 90.0% (SZ-HS-220)

0.0% to 100% (SZ-HS-100/4-20mA)

Settable Pressure range with Max. allowable from-15 PSI to 600

PSI (4-20mA) Input **Temperature Sensor** 

NTC probe, SZ-T75

: 0.1% / 1%

: +/- 3 PSI

RH Sensor (Selectable) SZ-HS-100 SZ-HS-220 4-20mA Input

Pressure Sensor 4-20mA Input Temp. Resolution : 0.1°C / 1°C / 1°F · +/- 1°C / 1°F Temp. Accuracy

: +/- 5% (for SZ-HS-220) RH Accuracy

Pressure Resolution : 1 PSI

# USER INTERFACE

Pressure Accuracy

**RH Resolution** 

### Program mode:



Press for 2 seconds to enter in Program mode. To set and save parameters in Program Mode.

In Min./Max. Log mode:

+/- 3% (for SZ-HS-100/ 4-20mA input)

## Press for 2 seconds to reset the min./max. Log of Temperature, Humidity and Pressure sensor.

Sensor display mode: Press for 1 second to show the Temperature, Humidity and Pressure one by one with the time set in End parameter except default display. If any High /

## Low temperature. Humidity or Pressure fault is present then it will flash at the rate of 500ms with respective sensor value.

Min./Max. Log mode: Press for 4 seconds to enter in Min./Max. Log mode.

If this key pressed continuously for 4 seconds, indicator initially enter into Sensor display mode and after 4 seconds it will enter in Min./Max. Log mode.

Scroll through parameters and its values.

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PARAMETER LIST		
To set parameters,		Display will flash "nŁĹ".  To select other parameters, use ▲ key.
Press & hold key for 2 seconds.		ro select other parameters, use 24 key.
Function: Temperature probe and Unit selection.		d Unit selection.

To set value press key To change value use \Lambda key

If this parameter is set to,

d 5 = NTC Probe disabled

= Unit °C (Temperature and related parameters will be displayed in unit °C)

F = Unit °F (Temperature and related parameters will be displayed in unit °F)

If Unit changed, P2 and P3 changed to Factory settings of respective Unit.

pec	LIVE OIIIL.		
	Min	Max	Fac.
	d 15	F	-

Note: If nEE disabled, nSE, P2, P3, AdE and P5 will not work and can not be displayed. Also, If nt [ set to F, r5t will not work and can not be displayed.

2. r5E

Function: To set controller Resolution for Temperature.

If this parameter is set to,

I. I = 0.1°C Resolution

Temperature and related parameters will be displayed with 0.1°C Resolution.

I = 1°C Resolution

Temperature and related parameters will be displayed with 1°C Resolution.

Min	Max	Fac.	
0.1	1	-	

Note: If nt E disabled or set to F. r5t will not work and can not be displayed.

3. PC

Function: To Set Maximum Allowable High Temperature Limit.

Example: If this parameter is set to 99.0°C and the Temperature reaches or goes above 99.0°C, Display will show HE (High Temperature) indicating that the Temperature has reached or gone above the value set in this parameter.

rS = 0.1, ntC = C		
Min	Max	Fac.
P3+1.0	99.0°C	99.0°C



(Message on display)

ntC = F		
Min	Max	Fac.
P3+1	210°F	210°F

rS = 1, ntC = C

P3+1 99°C 99°C

rS = 1 ntC = C

Min Max Fac.

-50°C P2-1 -50°C

Min Max Fac.

Note: If net disabled, or AL is set to 0, P2 will not work P3+1 210° and can not be displayed.

Function: To Set Minimum Allowable Low Temperature Limit.

Example: If this parameter is set to -10.0°C and the Temperature reaches or goes below

-10.0°C, Display will show LE (Low Temperature) indicating that the Temperature has reached or gone below the value set in this parameter.

rS = 0.1, ntC = C		
Min	Max	Fac.
-50.0°C	P2-1.0	-50.0°C



ntC = FMin Max Fac. (Message on display) -58°F P2-1

Note: If nE [ disabled, or AL is set to 0, P3 will not work and can not be displayed.

łŁ	Function: Power On Time Delay For Alarm for Temperature
le: If this	parameter is set to 20 minutes, once the indicator is power

Exampl ered ON, High Temperature and Low Temperature fault indication will not be activated for 20 minutes.

If Probe Temperature reaches or goes above P2 parameter value, High Temperature ( Hb ) fault will be displayed after completion of delay set with AdE parameter.

If Probe Temperature reaches or drops below P3 parameter value. Low Temperature ( LE) fault will be displayed after completion of delay set with Adb parameter.

Differential of 0.1°C / 1°C / 1°F is considered for clearing the fault.

Min	Max	Fac.
0 min	99 min	20 min

Note: If nt [ disabled, or AL is set 0, Adt will not work and can not be displayed.

Function: Temperature Probe Calibration

In time it may be possible that the display may be offset by a degree or so.

To compensate for this error, user may need to add or minus the degrees required to achieve the correct Temperature.

**Example:** The Temperature on the display is 28.0°C, whereas the actual Temperature is 30.0°C. User will have to set the P5 parameter to 2.0 °C, which means that once out of the Programming Mode, the Temperature on display will be 30.0°C (28.0°C+ 2.0°C)

rS = 0.1, ntC = C			rS	= 1, ntC =	: C
Min	Max	Fac.	Min	Max	Fac.
-10.0	10.0	0.0	-10	10	0

	ntC = F			
Min	Max	Fac.		
-10	10	0		

Note: If at a disabled, P5 will not work and can not be displayed.

Function: 4-20 mA input selection for RH or Pressure

If this parameter is set to, d .5 = 4-20 mA input disabled

rH = 4-20 mA input is selected for RH

Pr = 4-20 mA input is selected for Pressure

Min	Max	Fac.
d 15	Pr	d 15
		•

Max

H52

Fac.

Min

Note: If 55L is set to d i5 or rH then, PrH, PrL, Pr2, Pr3, AdP and Pr5 will not work and can not be displayed. Also, If 55L is set to r.H. then, H55 will not work and can not be displayed.

Function: Selection of RH Sensor

If this parameter is set to

d .5 = RH sensor disabled

H5 1 = HS-100 is selected as RH sensor

HS2 = HS-220 is selected as RH sensor

Note: If H55 disabled and 55L is other than -H, then -5H, H2, H3, H3H and H5 will not work and can not be displayed.

Function: To set controller Resolution for RH

If this parameter is set to,

**D. I** = 0.1% Resolution

RH and related parameters will be displayed with 0.1% Resolution.

I = 1% Resolution

RH and related parameters will be displayed with 1% Resolution.

Min	Max	Fac.
0.1	1	-

Note: If H55 disabled and 55L is other than cH, then c5H will not work and can not be displayed.

Function: To Set Maximum Allowable High Humidity Limit

Example: If this parameter is set to 90.0% and the Humidity reaches or goes above 90.0%, Display will show HH (High Humidity) indicating that the Humidity has reached or gone above the value set in this parameter.

> rSH = 0.1rSH = 1 Min Max Fac. Min Max Fac. H3+1.0 90.0% 90.0% H3+1 90% 90% HS-100 / 4-20mA rSH = 0.1 rSH = 1Min Max Min Max Fac. Fac. *Н*∃+1.0 99.0% 99.0% H∃+1 99% 99%

HH 🌲 (Message on display)

Note: If H55 disabled and 55L is other than rH, or AL is set 0, then H2 will not work and can not be displayed.

Function: To Set Minimum Allowable Low Humidity Limit.

**Example:** If this parameter is set to 30.0% and the Humidity reaches or goes below 30.0%, Display will show LH (Low Humidity) indicating that the Humidity has reached or gone below the value set in this parameter.

# HS-220

rSH = 0.1				rSH = 1		
Min	Max	Fac.		Min	Max	Fac.
30.0%	H2-1.0%	30.0%		30%	H2-1%	30%
HS-100 / 4-20mA						
rSH = 0.1					rSH = 1	
Min	Max	Fac.		Min	Max	Fac.
0.0%	H2-1.0%	0.0%		0%	H2-1%	0%
	30.0% Min	Min         Max           30.0%         H2-1.0%           rSH = 0.1           Min         Max	Min         Max         Fac.           30.0%         H2-1.0%         30.0%           HS-100 / FSH = 0.1           Min         Max         Fac.	Min         Max         Fac.           30.0%         H2-1.0%         30.0%           HS-100 / 4-20           rSH = 0.1         Min         Max         Fac.	Min         Max         Fac.         Min           30.0%         H∂-1.0%         30.0%         30.0%           HS-100 / 4-20mA           rSH = 0.1         Min         Max         Fac.         Min	Min         Max         Fac.         Min         Max           30.0%         H∂-1.0%         30.0%         30.0%         H∂-1%           HS-100 / 4-20mA           rSH = 0.1         rSH = 1           Min         Max         Fac.         Min         Max

1 H 🌲 (Message on display

Note: If H55 disabled and 55L is other than rH, or RL is set 0, then H3 will not work and can not be displayed.

	0.00	
12.	AdH	

Function: Power on Time Delay for Alarm for RH

**Example:** If this parameter is set to 20 minutes, once the indicator is powered ON. High Humidity and Low Humidity fault indication will not be activated for 20 minutes.

If Humidity reaches or goes above H2 parameter value, High Humidity (HH) fault will be displayed after completion of delay set with AdH parameter.

If Humidity reaches or drops below  $H\exists$  parameter value, Low Humidity LH) fault will be displayed after completion of delay set with AdH parameter.

Differential of 0.1% / 1% is considered for clearing the fault.

Min	Max	Fac.
0 min	99 min	20 min

Note: If H55 disabled and 55L is other than rH, or AL is set 0, then AdH will not work and can not be displayed

Function: RH Probe Calibration

In time it may be possible that the display may be offset by a percent or so.

To compensate for this error, user may need to add or minus the percents required to achieve the correct Humidity

**Example:** The Humidity on the display is 50.0%, whereas the actual Humidity is 52.0%. User will have to set the H5 parameter to 2.0%, which means that once out of the Programming Mode, the Humidity on display will be 52.0% (50.0%+2.0%)

Min	Max	Fac.
-10.0%	10.0%	0.0%

Note: If H55 disabled and 55L is other than rH, then H5 will not work and can not be displayed.

14.	PrH	

Function: Pressure high range selection for 20mA

The value set with this parameter is the pressure high range value selected for 20mA.

**Example:** If this parameter is set to 600 PSI, for pressure above 600 PSI, display will show Pressure probe fail PrF message.

I	Min	Max	Fac.
	(PrL+1) PSI	600 PSI	600 PSI

**Note:** If 55L is other than Pr, then PrH will not work and can not be displayed.

Pressure probe fail PrF message.

Function: Pressure low range selection for 4mA

The value set with this parameter is the pressure low range value selected for 4mA Example: If this parameter is set to -15 PSI, for pressure below -15 PSI, display will show

PrH and PrL parameters decide the operating range for pressure sensor against 4-20mA innut

Min	Max	Fac.
-15 PSI	(PrH-1) PSI	-15 PSI

**Note:** If 55L is other than Pr., then PrL will not work and can not be displayed.

_

Function: To Set Maximum Allowable Low Pressure Limit.

example: If this parameter is set to 500 PSI and the Pressure reaches or goes above 500 PSI,
Display will show HPr (High Pressure) indicating that the Pressure has reached or gone above
he value set in this parameter.

Min

(Pr∃+1) PSI

**Note:** If 55L is other than  $P_{\Gamma}$ , or RL is set 0, then  $P_{\Gamma}$ 2 will not work and can not be displayed.

17. Pr 3

Function: To Set Minimum Allowable Low Pressure Limit.

Example: If this parameter is set to 10 PSI and the Pressure reaches or goes below 10PSI, Display will show LPr (Low Pressure) indicating that the Pressure has reached or gone below the value set in this parameter.

Min	Max	Fac.
PrL	(Pr2-1) PSI	-15 PSI

Max

PrH

Fac.

600 PSI

**Note:** If 55L is other than  $P_r$ , or RL is set 0, then  $P_r \ni$  will not work and can not be displayed.

AdP	ower on Time Delay for Alarm for press
ППГ	ower on Time Delay for Alarm for pres

Example: If this parameter is set to 20 minutes, once the indicator is powered ON, High Pressure and Low Pressure fault indication will not be activated for 20 minutes.

If Pressure reaches or goes above Pr2 parameter value, High Pressure (HPr) fault will be displayed after completion of delay set with AdP parameter

If Pressure reaches or drops below Pr3 parameter value, Low Pressure (LPr) fault will be displayed after completion of delay set with AdP parameter.

Differential of 10 PSI is considered for clearing the fault.

Min	Max	Fac.
0 min	99 min	20 min

**Note:** If 55L is other than Pr, or AL is set 0, then AdP will not work and can not be displayed.

Function: Pressure Probe Calibration

In time it may be possible that the display may be offset by a PSI or so.

To compensate for this error, user may need to add or minus the PSI required to achieve the correct Pressure.

Example: The Pressure on the display is 100 PSI, whereas the actual Pressure is 105 PSI, User will have to set the Pr5 parameter to 5 PSI, which means that once out of the Programming Mode, the Pressure on display will be 105 PSI (100 PSI+ 5 PSI).

Min	Max	Fac.
-20 PSI	20 PSI	0 PSI

**Note:** If 55L is other than Pr., then Pr.5 will not work and can not be displayed.

20. ⊓₫

Function: Default (Normal) Display

If this parameter is set to,

**LiP** = Default display will be Temperature

rH = Default display will be Humidity

= Default display will be Pressure

ALL = Display will show the Temperature, Humidity and Pressure one by one with the time set in End parameter

Min	iviax	Fac.
ЕПР	ALL	Ŀī₽

21. End Function: Flashing rate for multiple sensor selection

**Example:** If this parameter is set to 2 seconds and nd parameter is set to RLL, then display will show the Temperature, Humidity and Pressure one by one each for 2 seconds for all enabled

If any High / Low temperature, Humidity or Pressure fault is present then it will flash at the rate of 500ms with respective sensor value.

Min	Max	Fac.
1 sec.	999 sec.	2 sec.

22.	$R_L$
-----	-------

Function: Alarm indication configuration for alarm icon and display fault

If this parameter is set to.

**0** = Alarm indication is applicable to all sensor fail faults and related fault massages (PrF, PP, HPP) will be displayed.

I = Alarm indication is applicable to all faults and all fault messages will be displayed (HE, LE, HH, LH, HPr, LPr, PrF, PP, HPP).

Min	Max	Fac.
0	1	0

Note: If RL parameter is set to 0, Parameters P2, P3, AdE, H2, H3, AdH, P-2, P-3, AdP not work and can not be displayed.

		1	o	
22	- 1	1	Γ	

This parameter is used to lock the keypad so that tampering is not possible by by-standers.

UnL = Keypad locked

LpC = Keypad unlocked When locked all parameters can only be viewed, but not modified

Function: To Lock Keypad.

1 P	_
(Message on Flashing)	

Vlin	Max	Fac.	
UnL	LoC	UnL	

Note: If LP parameter is set to 1 and if user tries to change any parameter value, "LP" will flash on the display.

# Function: To Factory Set.

When set to 9E5 all parameters are programmed to factory set values. Useful to debug setting related Problems.

When set to na = FS is disable

**YE5** = FS as per default value.

Min	Max	Fac.
no	YE5	0

25. <i>EP</i>	Function: To End Programming.	
		Once the key is pressed, th
Press SET/ PRG key		and displays the Temperat

Once the key is pressed, the indicator goes into the normal mode

and displays the Temperature / Humidity / Pressure as per od parameter and all settings are recorded.

LED INDICATION				
LED	Status	Description	Parameter	
•	ON	Alarm indication is ON for all faults: HE, LE, PP, HH, LH, HPP, P-F, HP-, LP	P2, P3, H2, H3, Pr2, Pr3, RL	
°C	ON	NTC Probe Temperature and Temperature related parameters displayed in °C.	· nt[	
°F	ON	NTC Probe Temperature and Temperature related parameters displayed in °F.		
%	ON	RH and RH related parameters displayed.	55L, H55	
PSI	ON	Pressure and Pressure related parameters displayed.	55L	

Msg. Description	Para.
Townson books Fall	
Probe short circuit, circuit open or without probe, or Temperature is > 100°C or < -50.0°C (if parameter nt is set to °C) or > 212°F or < -58°F (if parameter nt is set to °F).	nEC
RH Probe Fail Probe short circuit, circuit open or without probe, or Humidity is >100 % or < 0.0% (SZ-HS-100 / 4-20mA) or Humidity is >90.0 % or < 30.0% (SZ-HS-220).	55L, H55
Pressure Probe Fail Probe short circuit, circuit open or without probe, or Pressure is > Parameter PrH PSI or < Parameter PrL PSI.	55L
HE High Temperature Alarm Temperature above the maximum high Temperature Limit.	P2, AL
Le Low Temperature Alarm Temperature below the minimum low Temperature Limit.	P3, AL
High RH Alarm Humidity above the maximum high RH Limit.	H2, AL
LH Low RH Alarm Humidity below the minimum low RH Limit.	H3, AL
High Pressure Alarm Pressure above the maximum high Pressure Limit.	Pr2, AL
LPr Low Pressure Alarm Pressure below the minimum low Pressure Limit.	Pr∃, RL

OPERAT	TING MESSAGES	
L-5	In Log function: When LL I-LL3 and LH I-LH3 values are cleared.	-
LLI	Last Low Temperature Las Low Temperature Logged.	nͰΓ
LHI	Last High Temperature Las High Temperature Logged.	IILL
115	Last Low Humidity Las Low Humidity Logged.	1155
LH2	Last High Humidity Las High Humidity Logged.	55L, H55
LL3	Last Low Pressure Las Low Pressure Logged.	55L
LH3	Last High Pressure Las High Pressure Logged.	ורר
ر5 <i>ا</i>	When LL I and LH I values of NTC are reset when NTC fails or NTC sensor is not Selected.	-
r52	When LL2 and LH2 values of RH are reset when RH fails or RH sensor is not Selected.	-
r53	When LL∃ and LH∃ values of Pressure Probe are reset when Pressure Probe fails or Pressure Probe is not Selected.	-
LP	Keypad lock Keypad is locked.	LP
ьРd	When $nd$ is set to $E \cap P$ and $n \in E$ is set to $d \cap S$ .	nΕC
rHd	When ad is set to all and 55L is other than all and H55 is set to d i5.	55L, H55
Prd	When $nd$ is set to $Pr$ and $SSL$ is other than $Pr$ .	55L
ALd	When ad is set to ALL and all sensors are disabled.	nEC, 55L, H55

# HIGH AND LOW TEMPERATURE, HUMIDITY AND PRESSURE LOGGING FUNCTION

## How to see the Logged Values:

LL 1: Last Low Temperature

LH I: Last High Temperature

LL2: Last Low RH

LH2: Last High RH

1 seconds

LL3: Last Low Pressure

I H3 · Last High Pressure Press and hold key for 4sec, initially indicator enter into to Sensor display mode and after

4 seconds it will enter in Min./Max. Log mode. **Temperature log:** Display will flash "LL |" and the corresponding temperature for 4 seconds.

After this, display will flash "LH I" and the corresponding Temperature for 4 seconds. Humidity log: After Temperature log, display will flash "LL ≥" and the corresponding Humidity for 4 seconds. After this, display will flash "LH2" and the corresponding Humidity for

Pressure log: After Humidity log, display will flash "LL 3" and the corresponding Pressure for 4 seconds. After this, display will flash "LH3" and the corresponding Pressure for 4 seconds and come out of Log Mode and will display the Temperature/ Humidity/ Pressure as per nd

## How to reset the Logged Values

While the display is showing the Logged Values, if user press & hold the septiment leads to be septimentally septiments.

the Logged Values will be cleared and reset message will be displayed as below,

r5 / : Temperature log reset

r52: Humidity log reset

r53 : Pressure log reset

Log Values will get reset after Power ON/OFF.

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# OTHER PRODUCTS



Chiller Controller

Heating Controller

**Humidity Controlle** 

Pressure Controller

CASTLE Shut Off Valve

Solenoid Valve Two Compressor Controller Ball Valve Hand Valve Flow Switch Door Latch / Hinges

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