









# 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:

-50.0°C to 99.0°C / -58°F to 210°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.



# KEYS 4 9 <u>@</u> **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 V0 Grade

Front Cover : Polycarbonate Plastic V0 Grade

: Front: 79 x 130 mm Dimensions Depth: 51 mm Mounting : Wall mounting

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

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 99.0°C / -58°F to 210°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 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 RH Resolution : 0.1% / 1%

: +/- 5% (for SZ-HS-220) RH Accuracy +/- 3% (for SZ-HS-100/ 4-20mA input)

Pressure Resolution : 1 PSI Pressure Accuracy : +/- 3 PSI

# USER INTERFACE

#### Program mode:



Press for 2 seconds to enter in Program mode.

To set and save parameters in Program Mode. In Min./Max. Log mode:

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 "nEE".  To select other parameters, use  key.
Press & hold [867] key for 2 seconds.	ro select other parameters, use [1] key.

ı, nEL	Function: Temperature probe and Unit selection.		
To change value	use 🖪 key	To set value press	set/ PRG key

If this parameter is set to.

ರ್ನ = NTC Probe disabled

E = 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.

her	tive Oilit.		
	Min	Max	Fac.
	d 5	F	-

Note: If nEE disabled, r5E, P2, P3, AdE and P5 will not work and cannot be displayed. Also, If nt [ set to F, r5t will not work and cannot be displayed.

2. r5t

Function: To set controller Resolution for Temperature.

If this parameter is set to.

# **D. 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 cannot be displayed.

3. P2

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  $\mbox{\it HE}$  (High Temperature) indicating that the Temperature has reached or gone above the value set in this parameter. Differential of 1.0°C / 1°F is considered for clearing the fault rS = 1. ntC = C

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

HE 🌲

(Message on display) Note: If nEE disabled, or RL is set to 0, P2 will not work

ntC = FMin Max Fac. P3+1 210°F 210°F

Min Max Fac.

P3+1 99°C 99°C

and cannot 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. Differential of 1.0°C / 1°F is considered for clearing the fault.

rS = 0.1, ntC = C				
Min	Max	Fac.		
-50.0°C	₽2-1.0	-50.0°C		

L Ŀ ♣ (Message on display)

ntC = FMax -58°F P2-1 -58°F

rS = 1, ntC = C

Min Max Fac.

-50°C P2-1 -50°C

Note: If nt [ disabled, or AL is set to 0, P∃ will not work and cannot be displayed

s. Adb		Function: Power On Time I	Delay For Alar	m for Ten	nperature		_
		parameter is set to 20 mir Low Temperature fault indi					
		ture reaches or goes above lafter completion of delay se			gh Tempera	ture (HL) fault	:
		ture reaches or drops below after completion of delay se			ow Tempera	ture (LE) fault	:
Differentia	al of 1.0	°C / 1°F is considered for cle	aring the fau	lt.			
				Min	Max	Fac.	l
				0 min	99 min	20 min	
		lad an Di ia aat O D II will		can not h	o displayed		•
Note: If n	ti disat	led, or AL is set 0, AdE will i	not work and	Call HOL D	e uispiayeu.		
Note: If old	EL disab	Function: Temperature Pro			e displayed.		_
6. PS			obe Calibratio	n			
6. <i>P5</i> In time it	may be	Function: Temperature Propossible that the display main this error, user may need	bbe Calibration	n a degree	or so.		

Example: The Temperature on the display is 28.0°C, whereas the	ne actual Temperature is 30.0°0
User will have to set the P5 parameter to 2.0 °C, which	means that once out of th
Programming Mode, the Temperature on display will be 30.0°C	C (28.0°C+ 2.0°C)
xC = 0.1 mtC = C	rC = 1 m+C = C

13 - 0.1, 1110 - 0		13	- 1, IIIC -	- C	
Min	Max	Fac.	Min	Max	Fac
-10.0	10.0	0.0	-10	10	0
			r	tC = F	

Min

-10

Note: If of E disabled P5 will not work and cannot be displayed.

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

If this parameter is set to.

ರ್ಷ5 = 4-20 mA input disabled

rH = 4-20 mA input is selected for RH

**Pr** = 4-20 mA input is selected for Pressure

Max Fac. d 5

Min

d 5

Max

H52

Fac.

d 5

Max

10

Fac.

Note: If 55L is set to disabled or rH then, PrH, PrL, Pr2, Pr3, AdP and Pr5 will not work and cannot be displayed. Also, If 55L is set to cH, then, H55 will not work and cannot be displayed.

Function: Selection of RH Sensor

If this parameter is set to, ႕도 = RH sensor disabled

H5 | = HS-100 is selected as RH sensor H52 = HS-220 is selected as RH sensor

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

Function: To set controller Resolution for RH

If this parameter is set to,

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

I = 1% Resolution

HH 👃

(Message on display)

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

	Min	Max	Fac.
	0.1	1	-
F.11			

Note: If H55 disabled and 55L is other than rH, then r5H will not work and cannot 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. Differential of 1.0% is considered for clearing the fault.

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

Note: If H55 disabled and 55L is other than ¬H, or AL is set 0, then H2 will not work and cannot 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. Differential of 1.0% is considered for clearing the fault.

HS-220

	113-220						
		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%

1 H 🌲 (Message on display)

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

12. RoH

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  $\emph{AdH}$  parameter.

Differential of 1.0% 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 RL is set 0, then RdH will not work and cannot be displayed.

13. HS

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 cannot be displayed.

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.

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

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

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 Pressure probe fail PrF message.

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

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

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

16. Pr.2

Function: To Set Maximum Allowable High Pressure Limit.

Example: If this parameter is set to 500 PSI and the Pressure reaches or goes above 500 PSI. Display will show HP (High Pressure) indicating that the Pressure has reached or gone above the value set in this parameter. Differential of 10 PSI is considered for clearing the fault.

Min	Max	Fac.
(Pr∃+1) PSI	PrH	600 PSI

**Note:** If 55L is other than Pr, or RL is set 0, then Pr2 will not work and cannot 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 LP (Low Pressure) indicating that the Pressure has reached or gone below the value set in this parameter. Differential of 10 PSI is considered for clearing the fault.

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

**Note:** If 55L is other than Pr, or AL is set 0, then Pr 3 will not work and cannot be displayed.

84P	Function: Power on Time Delay for Alarm for pressur
	Function: Power on Time Delay for Alarm for pressur

**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 (HP) fault will be displayed after completion of delay set with AdP parameter

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

Differential of 10 PSI is considered for clearing the fault. ... ...

	IVIIN	iviax	Fac.	1
	0 min	99 min	20 min	
Note: If 55L is other than Pr, or AL is set 0, then AdP will	not work ar	nd cannot 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 Pr5 will not work and cannot be displayed.

20. 🗆 🗖

Function: Default (Normal) Display

If this parameter is set to,

£n̄P = 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	Max	Fac.
ŁĀP	ALL	FUL
EHE	nll	E:H

Function: Flashing rate for multiple sensor selection 21. End

**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.

	1 sec	999 sec	2 sec

22. AL	
--------	--

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, HP, LP, PrF, PP, HPP).

Min	Max	Fac.
0	1	0

Note: If RL parameter is set to 0, Parameters P2, P3, RdE, H2, H3, RdH, Pr2, Pr3, RdP not work and cannot be displayed.

23. LP

Function: To Lock Keypad. This parameter is used to lock the keypad so that tampering is not possible by by-standers.

UnL = Keypad locked

**Lo□** = Keypad unlocked When locked all parameters can only be viewed, but not modified.

(Message on Flashing)

/lin	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. no = FS is disable

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

Max Fac. 9E5 no 00

Function: To End Programming.

To End Programming Press SET/ PRG key

Once the key is pressed, the indicator goes into the normal mode and displays the Temperature/ Humidity/ Pressure as per nd 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.	οΕΓ	
°F	ON	NTC Probe Temperature and Temperature related parameters displayed in °F.	ner	
%	ON	RH and RH related parameters displayed.	55L, H55	
PSI	ON	Pressure and Pressure related parameters displayed.	55L	

FAULT N	MESSAGES	
Msg.	Description	Para.
рр	Temperature Probe Fail  Probe short circuit, circuit open or without probe, or  Temperature is > $100^{\circ}$ C or < $-50.0^{\circ}$ C (if parameter $n \vdash \mathcal{L}$ is set to  °C) or > $212^{\circ}$ F or < $-58^{\circ}$ F (if parameter $n \vdash \mathcal{L}$ is set to °F).	nΕ[
нрр	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
PrF	Pressure Probe Fail Probe short circuit, circuit open or without probe, or Pressure is > Parameter PrH PSI or < Parameter PrL PSI.	55L
HĿ	<b>High Temperature Alarm</b> Temperature above the maximum high Temperature Limit.	P2, AL
LŁ	<b>Low Temperature Alarm</b> Temperature below the minimum low Temperature Limit.	P3, AL
HH	<b>High RH Alarm</b> Humidity above the maximum high RH Limit.	H2, RL
LH	Low RH Alarm Humidity below the minimum low RH Limit.	H3, RL
HP	High Pressure Alarm Pressure above the maximum high Pressure Limit.	Pr2, AL
LP	<b>Low Pressure Alarm</b> Pressure below the minimum low Pressure Limit.	Pr∃, AL

OPERA	TING MESSAGES		
LrS	In Log function: When LL I - LL3 and LH I - LH3 values are cleared.	-	
LLI	Last Low Temperature Las Low Temperature Logged.	nΕΓ	
LHI	Last High Temperature Las High Temperature Logged.	NEL	
LLZ	Last Low Humidity Las Low Humidity Logged.		
LH2	Last High Humidity Las High Humidity Logged.	55L, H55	
113	Last Low Pressure Las Low Pressure Logged.	551	
LH3	Last High Pressure Las High Pressure Logged.	55L	
r51	When LL   and LH   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 3 and LH3 values of Pressure Probe are reset when Pressure Probe fails or Pressure Probe is not Selected.	-	
LP	Keypad lock Keypad is locked.	LP	
ĿРd	When nd is set to ₺₸Pand n₺₢ is set to ₺ 5.	nE[	
rHd	When ad is set to all and SSL is other than all and HSS is set to d $5$ .	55L, H55	
Prd	When nd is set to Pr and 55L is other than Pr.	55L	
ALd	When and 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

LL3: Last Low Pressure

LH3: 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 I" 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 4 seconds

Pressure log: After Humidity log, display will flash "LL3" 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 and

#### How to reset the Logged Values

While the display is showing the Logged Values, if user press & hold the SET/ key for 2sec,

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

- ¬5 1 : Temperature log reset
- r52: Humidity log reset
- r5∃: Pressure log reset

Log Values will get reset after Power ON/OFF.

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# OTHER PRODUCTS



Chiller Controller

Heating Controller

**Humidity Controller** 

CASTLE

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

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