

About Us

A.S. Controls Pvt. Ltd. was established in 1986, and started out as a small manufacturing unit that developed level controls and valves for ammonia plants. Today our technical innovation puts us in the forefront of the refrigeration and air-conditioning control industry in India.

We have two established brands – Castle and Subzero, both of which have grabbed the attention, and the loyalty of several industry leaders like Blue Star, Kirloskar, Reliance and others.

What is impressive is the vast array of products from mechanical components to automation to humidification and temperature controls. The wide acceptance and trust of the 20-year-old pan India Subzero brand.

The evolution of A.S. Controls Pvt Ltd into PVR Controls has helped to leverage the strengths of our design team to expand our product portfolio. Our recent focus on the need for Automation has resulted in the launch of a highly customizable and user-friendly range of HMI's, PLC's and related products. We are very excited to showcase this technology as part of our Subzero range.

If our strength is industry experience, our in-house R&D team is the engine that works round the clock to keep us ahead. Each brand has its own core technical team, and borrows specific talents from a common pool. Our approach to everything is lean and efficient. And that is how we manage to run a successful R&D team, core technical team, marketing staff, production, administration all with a low head count.

Our in-house R&D team spans both electrical and mechanical fields, giving us the advantage in developing products suited to the customer's need across both fields.

The electronic controls team is proficient in the areas of PCB design (Single sided, double sided, multilayer boards), Hardware design (analog, digital, mixed signal) and Embedded software (Assembly language and C for microcontrollers). The mechanical arm is adept in the design of valves and other items essential to Ammonia and Freon based products.

Our talent pool, backed by in-house machinery and 3D software, allows us to create and test prototypes in a much shorter design cycle.

The guiding force behind the success of the company are our values. We firmly believe and adhere to the highest levels of quality in all materials, technology and manpower. We use innovation to mould technology to suit the customer's needs and not the other way around. We create cost efficiencies for the customer through quality efficient processes, thereby offsetting costs incurred on high quality materials. And we are responsible for our immediate surroundings and the environment at large.



PRODUCTS

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Blood Bank Controller	SZ-7516-P
Temperature Controller with Analog Input	SZ-7571
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Temperature Controller with Alarm Output	SZ-7556-P /
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PRODUCTS

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Dimension : 36x78mm
Panel Cutout : 29x71mm



SZ-7505T

T 4R

T 72

SZ-7504

Temperature Indicator

Rectangle Digital Temperature Indicator

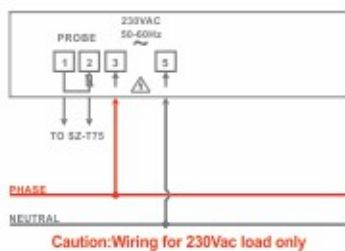
4" Dial Temperature Indicator

4 Channel Temperature Scanner

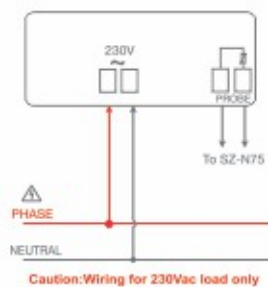


FEATURES	SZ-7505T	T 4R	T 72	SZ-7504
Display: n° digits	2x17m 7 segment display	2x25.4mm (1")LED	3x25.4mm (1")LED	2x14.2mm (0.56")LED
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	-45°C to +99°C	-50°C to +50°C	-50.0°C to +50.0°C	-50°C to +99°C
Probe inputs				
Thermostat	NTC	NTC	NTC	NTC
Defrost (Coil)				
Compressor				
Compressor2				
Alarm				
Others				
Buzzer				
Serial Output				

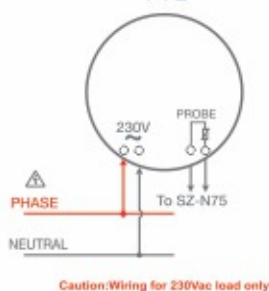
SZ-7505T



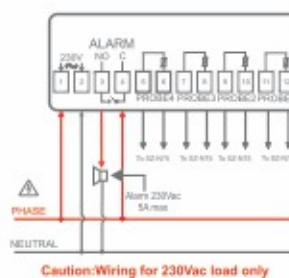
T 4R



T 72



SZ-7504





SZ-7510T | Temperature Controller with Power Switch

SZ-7569T | Temperature Controller with Power Switch and 20A Relay

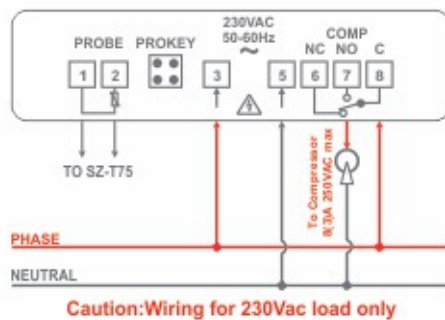
TOUCH SENSITIVE KEYPAD

Dimension : 36x78mm

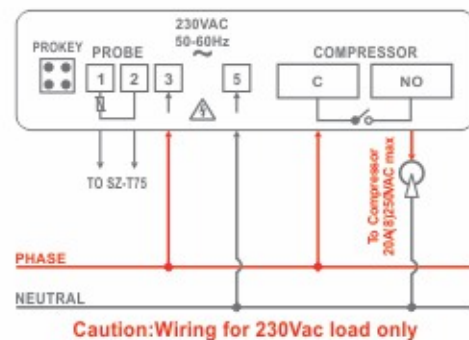
Panel Cutout : 29x71mm

FEATURES	SZ-7510T	SZ-7569T
Display: n° digits	2x17mm 7 segment display & 5 LEDs for Indication	2x17mm 7 segment display & 5 LEDs for Indication
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	-40°C to +99°C	-40°C to +50°C
Probe inputs		
Thermostat	NTC	NTC
Relay Outputs		
Compressor	8(3)A	20(8)A
Alarm		
Others		
Buzzer		
Serial Output		

SZ-7510T



SZ-7569T



**Coming
Soon**

SZ-7510T



SZ-7589T



GENERAL / ANTIFREEZE CONTROLLERS



SZ-7510-P-DI | Temperature Controller with Digital Input

SZ-7512-P | Antifreeze Control with Manual Reset

SZ-7514-P | Antifreeze & Temperature Controller

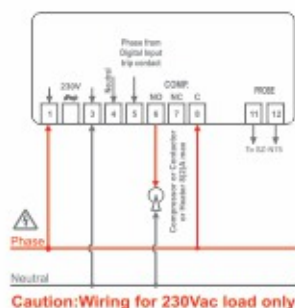
SZ-7515-P | Temperature Controller with Buzzer

Dimension : 34.5x75mm

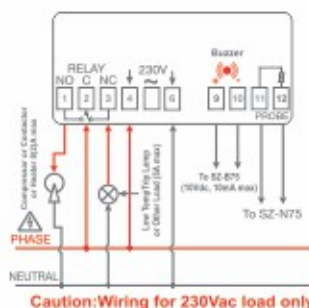
Panel Cutout : 29x71mm

FEATURES	SZ-7510-P-DI	SZ-7512-P	SZ-7514-P	SZ-7515-P
Display: n° digits	2x14.2mm(0.56")LED	2x14.2mm(0.56")LED	2x14.2mm(0.56")LED	2x14.2mm(0.56")LED
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	-50°C to +99°C	-50°C to +50°C	-50°C to +50°C	-50°C to +99°C
Probe inputs				
Thermostat	NTC	NTC	NTC	NTC
Antifreez			NTC	
Digital inputs				
HP / LP / OSS / Phase Loss / Digital Door I/P	Yes			
Relay Outputs				
Compressor	8(3)A	8(3)A	8(3)A	8(3)A
Compressor2				
Alarm				
Others				
Buzzer		Yes	Yes	Yes
Serial Output				

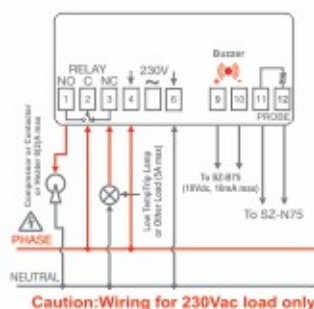
SZ-7510-P-DI



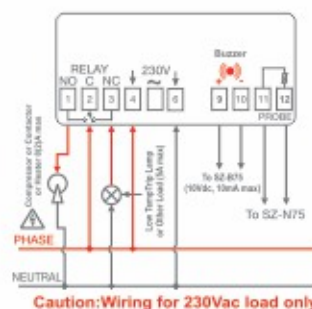
SZ-7512-P



SZ-7514-P



SZ-7515-P



WALL MOUNT / BLOOD BANK CONTROLLERS



Dimension : 34.5x75mm
Panel Cutout : 29x71mm

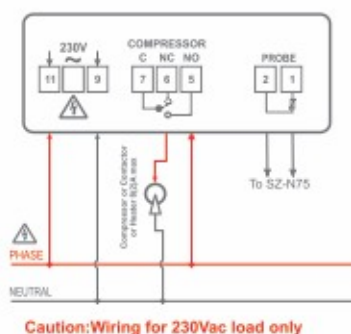


Dimension : 126x80mm

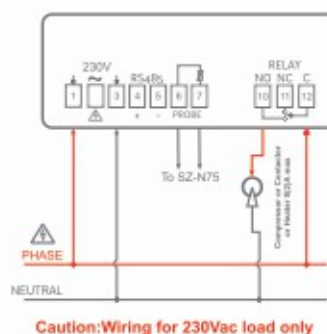
SZ-7510-WV	Temperature Controller with Wall Mount
SZ-7510-C	Temperature Controller with PC Communication
SZ-7516-P	Blood Bank Controller
SZ-7571	Temperature Controller with Analog Output

FEATURES	SZ-7510-WV	SZ-7510-C	SZ-7516-P	SZ-7571
Display: n° digits	3x14.2mm(0.56")LED	3x14.2mm(0.56")Dot Matrix	2x14.2mm(0.56")LED	3x14.2mm(0.56")LED
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.	10VAC Standard. Others on request.	100-265VAC 50-60Hz Others on request.
Temperature Range	-40.0°C to 50.0°C	-50.0°C to 50.0°C	-50°C to +99°C	-40.0°C to 50.0°C
Probe inputs				
Thermostat	NTC	NTC	NTC	NTC
Defrost (Coil)				
Analog Outputs				
4-20mA				Yes
0-10V				Yes
Relay Outputs				
Compressor	8(3)A	8(3)A	8(3)A	8(3)A
Compressor2				
Alarm				
Others				
Buzzer			Yes	
Serial Output		RS485		
Battery Backup			Yes (upto 24 Hrs.)	

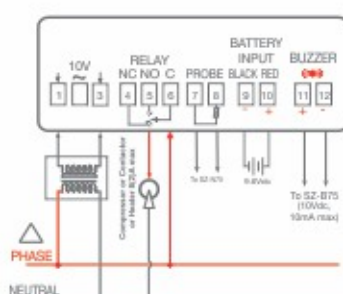
SZ-7510-WV



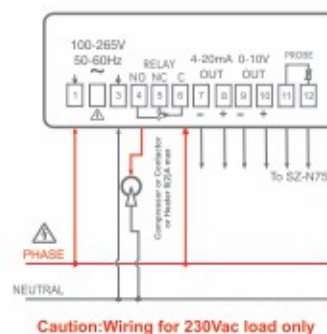
SZ-7510-C



SZ-7516-P



SZ-7571



TWO COMP / ALARM OUTPUT CONTROLLERS

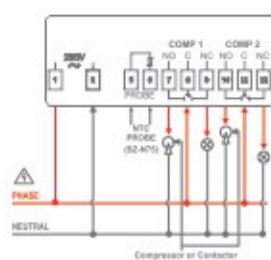


Dimension : 34.5x75mm
Panel Cutout : 29x71mm

SZ-7552-P / 7562-P	2 Compressor Controller
SZ-7556-P-D	Differential Temperature Controller
SZ-7556-P / 7566-P	Temperature Controller with Alarm Output
SZ-7558-P / 7568-P	Temperature Controller with 20A Relay & Alarm Output

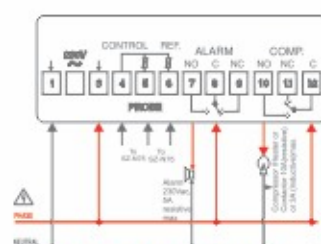
FEATURES	SZ-7552-P / 7562-P	SZ-7556-P-D	SZ-7556-P / 7566-P	SZ-7558-P / 7568-P
Display: n° digits	3x14.2mm(0.56")LED	2x14.2mm(0.56")LED	3x14.2mm(0.56")LED	3x14.2mm(0.56")LED
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	0.0°C to 50.0°C (SZ-7552-P) -50°C to 99°C (SZ-7562-P)	0°C to 50°C	0.0°C to 50.0°C (SZ-7556-P) -40.0°C to 50.0°C (SZ-7566-P)	0.0°C to 50.0°C (SZ-7558-P) -40.0°C to 50.0°C (SZ-7568-P)
Resolution	0.1°C (SZ-7552-P) 1°C (SZ-7562-P)	1°C	0.1°C (SZ-7556-P) 1°C (SZ-7566-P)	0.1°C (SZ-7558-P) 1°C (SZ-7568-P)
Probe inputs				
Thermostat	NTC	NTC	NTC	NTC
Defrost (Coil)				
Relay Outputs				
Compressor	8(3)A	8(3)A	8(3)A	20A (Inductive)
Compressor2	8(3)A			
Alarm		5A	5A	5A
Others				
Buzzer				
Serial Output				

SZ-7552-P / 7562-P



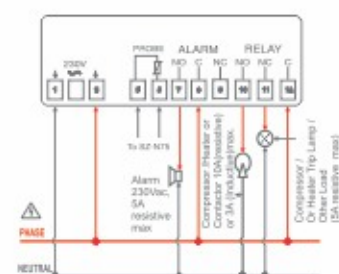
Caution: Wiring for 230Vac load only

SZ-7556-P-D



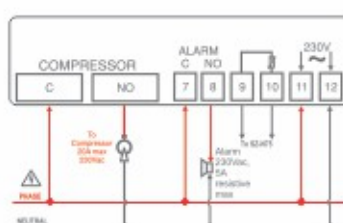
Caution: Wiring for 230Vac load only

SZ-7556-P / SZ-7566-P



Caution: Wiring for 230Vac load only

SZ-7558-P / SZ-7568-P



Caution: Wiring for 230Vac load only

BULK MILK COOLER / AIR DRYER / OFF CYCLE DEFROST



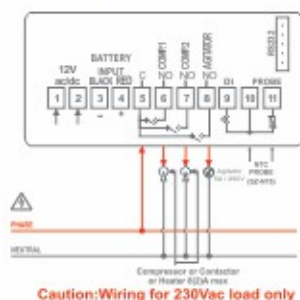
Dimension : 34.5x75mm
Panel Cutout : 29x71mm

SZ-7518-P	Bulk Milk Cooler Controller
SZ-7521-P	Temperature Controller for Air Dryer
SZ-7525-P	Off Cycle Defrost Controller with Buzzer
SZ-7520T	Temperature Controller with Off Cycle Defrost
SZ-7529T	Off Cycle Defrost Controller with 20A Relay

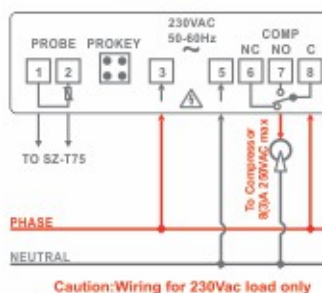


FEATURES	SZ-7518-P	SZ-7521-P	SZ-7525-P	SZ-7520T	SZ-7529T
Display: n° digits	3x14.2mm (0.56")LED	2x14.2mm (0.56")LED	2x14.2mm (0.56")LED	2x17mm 7 segment display & 5 LEDs for Indication	2x17mm 7 segment display & 5 LEDs for Indication
Power supply	12VAC/DC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	-44°C to +99°C	-44°C to +99°C	-50°C to +99°C	-45°C to +99°C	-45°C to +99°C
Probe inputs					
Thermostat	NTC	NTC	NTC	NTC	NTC
Defrost (Coil)					
Digital inputs					
HP / LP / OSS / Phase Loss / Digital Door I/P	Yes				
Relay Outputs					
Compressor	8(3)A	8(3)A	8(3)A	8(3)A	20(8)A
Compressor2	8(3)A				
Defrost		5A			
Agitator	8(3)A				
Fan					
Alarm					
Others					
Buzzer			Yes		
Serial Output	RS232				
Battery Backup	Yes				

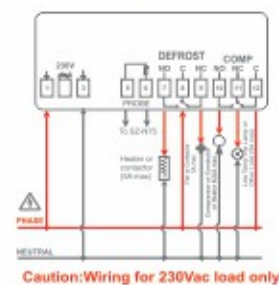
SZ-7518-P



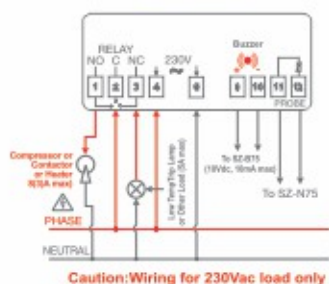
SZ-7520T



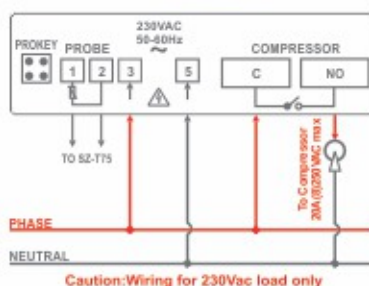
SZ-7521-P



SZ-7525-P



SZ-7529T



FREEZER CONTROLLERS



Dimension : 34.5x75mm
Panel Cutout : 29x71mm

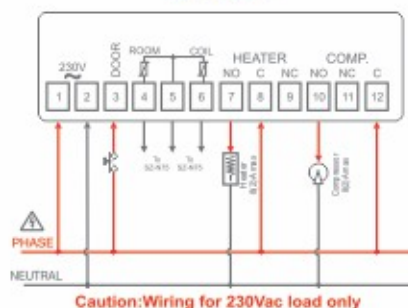
SZ-7522-P | Freezer Controller

SZ-7524-T | Freezer Controller with Buzzer & Touch Sensitive Keypad

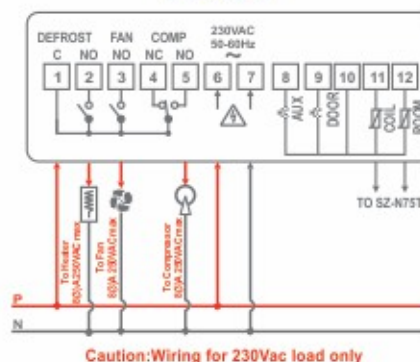


FEATURES	SZ-7522-P	SZ-7524T
Display: n° digits	3x14.2mm (0.56")LED	3x17mm 7 segment display & 10 LEDs for Indication
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	-50°C to +99°C	-40.0°C to +50.0°C
Resolution	1°C	0.1°C
Probe inputs		
Thermostat	NTC	NTC
Defrost (Coil)	NTC	NTC
Digital inputs		
HP / LP / OSS / Phase Loss / Digital Door I/P	Yes	
Relay Outputs		
Compressor	8(3)A	8(3)A
Compressor2		
Defrost	5A	8(3)A
Agitator		
Fan		8(3)A
Alarm		
Others		
Buzzer		Yes
Serial Output		

SZ-7522-P



SZ-7524T



TWO COMPRESSOR COLD ROOM CONTROLLERS



Dimensions : 210x121mm

SZ-CR2

CRC-1220

Two Compressor Controller

Split type twin circuit cold room controller



User Interface

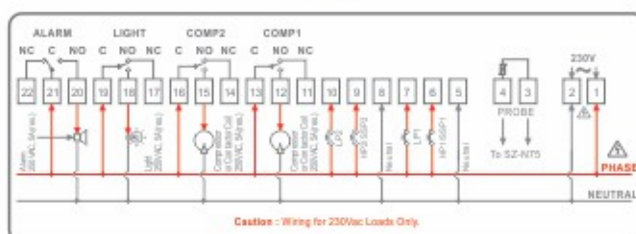


Relay Board

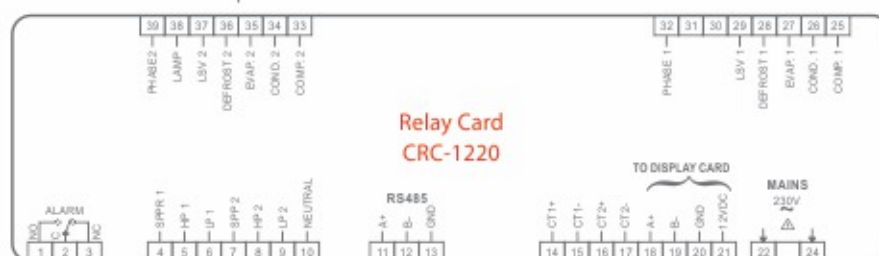
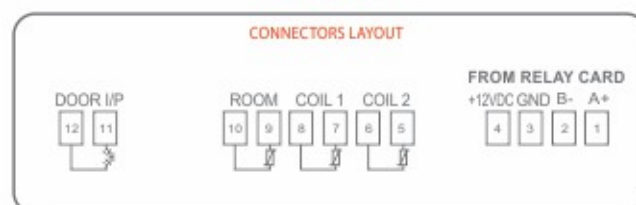


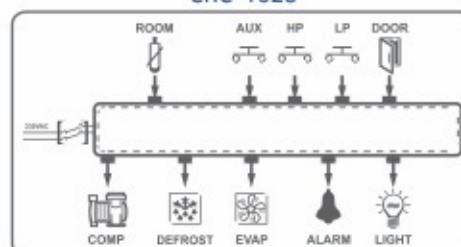
FEATURES	SZ-CR2	CRC-1220
Display: n° digits	2x25.4mm (1") LED	2x25.4mm (1") LED + 16x2 LCD Display
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	-45°C to +35°C -49°F to +95°F	-45°C to +35°C
Probe inputs		
Thermostat	NTC	NTC
Defrost (Coil1)		NTC
Defrost (Coil2)		NTC
Digital inputs		
HP1, LP1, HP2, LP1, SPP1, SPP2, Digital Door I/P	Yes	Yes
Relay Outputs		
Compressor	5A	8(2)A
Compressor2	5A	8(2)A
Defrost		8(2)A
Defrost2		8(2)A
Condenser		8(2)A
Condenser2		8(2)A
Evaporator		8(2)A
Evaporator2		8(2)A
LSV		8(2)A
LSV2		8(2)A
Light	5A	8(2)A
Alarm	5A	8(2)A
Others		
Buzzer		Yes
Serial output		RS485

SZ-CR2



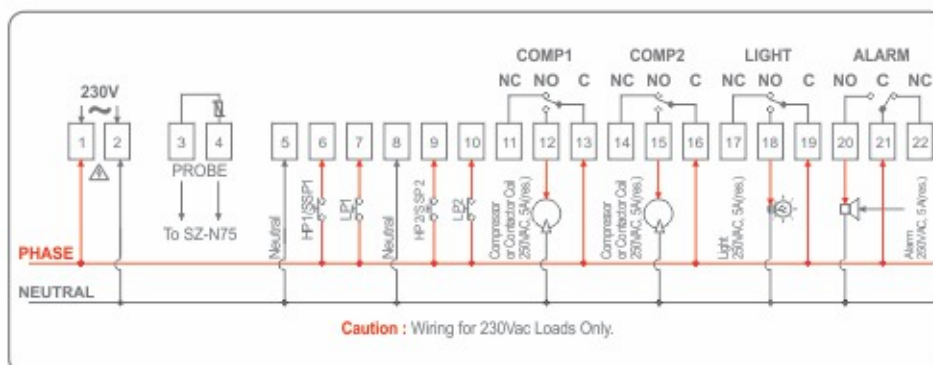
CRC-1220



SZ-CRC-1100A

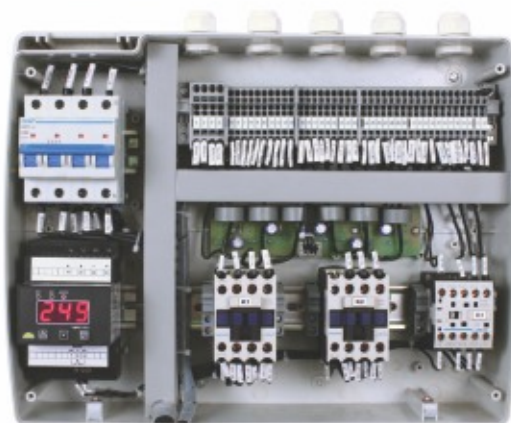


FEATURES	SZ-CR2-FP
Display: n° digits	2x25.4mm (1") LED
Power supply	230VAC Standard. Others on request.
Temperature Range	-45°C to +35°C -49°F to +95°F
Probe inputs	NTC
Thermostat	
Defrost (Coil1)	
Defrost (Coil2)	
Digital inputs	Yes
HP1, LP1, HP2, LP1, SPP1, SPP2, Digital Door I/P	
Relay Outputs	
Compressor	5A
Compressor2	5A
Defrost	
Defrost2	
Condenser	
Condenser2	
Evaporator	
Evaporator2	
LSV	
LSV2	
Light	5A
Alarm	5A
Others	
Buzzer	
Serial output	



ELECTRICAL COLD ROOM PANEL

CRC-2020	Medium Temp. Electrical Cold Room Panel
CRC-2052	Low Temp. Electrical Cold Room Panel



Model : CRC-2052



Model : CRC-2052

Coming
Soon



Data logging

HACCP

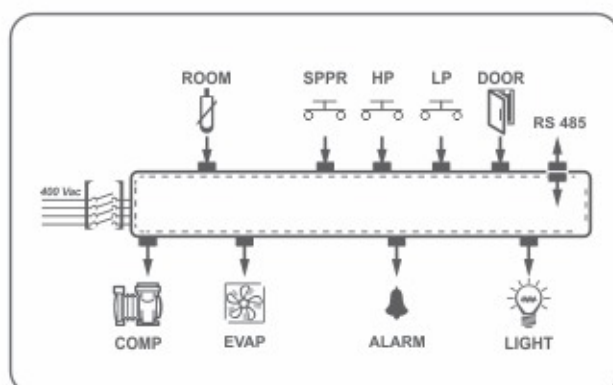
Touch Keypad

ELECTRICAL COLD ROOM PANELS

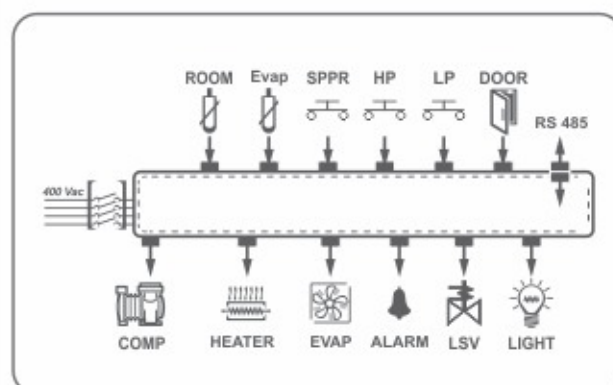
CRC-2020	Medium Temp. Electrical Cold Room Panel
CRC-2052	Low Temp. Electrical Cold Room Panel

	Plastic Panel	Sheet Metal Panel	Plastic Panel	Sheet Metal Panel
FEATURES	CRC-2020	CRC-202000S	CRC-2052	CRC-205200S
Display: n° digits	4 Digit, 1" Dot Matrix Display	4 Digit, 1" Dot Matrix Display	4 Digit, 1" Dot Matrix Display	4 Digit, 1" Dot Matrix Display
Power supply	415V $\pm$ 10% 50-60Hz	415V $\pm$ 10% 50-60Hz	415V $\pm$ 10% 50-60Hz	415V $\pm$ 10% 50-60Hz
Temperature Range	Temp : -50°C to +50°C	Temp : -50°C to +50°C	Temp : -50°C to +50°C	Temp : -50°C to +50°C
Load Type	Three-Phase	Three-Phase	Three-Phase	Three-Phase
Probe inputs				
Thermostat	NTC	NTC	NTC	NTC
Evaporator			NTC	NTC
Current Sensing	Yes	Yes	Yes	Yes
Digital inputs				
HP, LP, SPPR, AUX / CTH, OPS, Door	Yes, RYB	Yes, RYB	Yes, RYB	Yes, RYB
Outputs				
Compressor Contactor	3 Pole + 1 Aux, 400V, 18A(230VAC Coil)	3 Pole + 1 Aux, 400V, 18A(230VAC Coil)	3 Pole + 1 Aux, 400V, 18A(230VAC Coil)	3 Pole + 1 Aux, 400V, 18A(230VAC Coil)
Defrost Contactor			3 Pole + 1 Aux, 400V, 18A(230VAC Coil)	3 Pole + 1 Aux, 400V, 18A(230VAC Coil)
Evaporator Fan Contactor			3 Pole + 1 Aux, 400V, 9A(230VAC Coil)	3 Pole + 1 Aux, 400V, 9A(230VAC Coil)
Condenser Relay			8(2)A / 230VAC	8(2)A / 230VAC
LSV Relay			8(2)A / 230VAC	8(2)A / 230VAC
Light Relay	5A / 230VAC	5A / 230VAC	5A / 230VAC	5A / 230VAC
Alarm Relay	5A / 230VAC	5A / 230VAC	5A / 230VAC	5A / 230VAC
Others				
Main Switch General Protection	4 Poles MCB	4 Poles MCB	4 Poles MCB	4 Poles MCB
LVM	4 Wire Voltage Monitoring & Protection	4 Wire Voltage Monitoring & Protection	4 Wire Voltage Monitoring & Protection	4 Wire Voltage Monitoring & Protection
Buzzer	Yes	Yes	Yes	Yes
Serial Output	RS485	RS485	RS485	RS485

CRC-2020



CRC-2052



Multi Coldroom Electrical Panel



Process Chiller Electrical Panel



PACKAGED AC CONTROLLERS



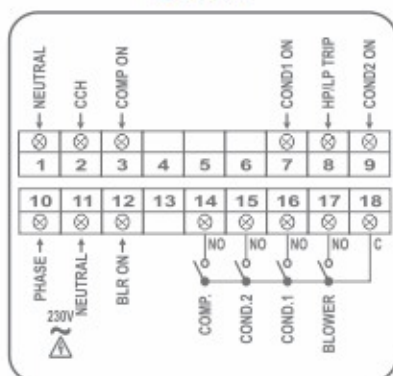
Dimension : 96x96mm
Panel Cutout : 92X92mm

SZ-7574	Controller for Single Cooling Unit
SZ-7575	Controller for Two Cooling Unit
SZ-7576	Controller for Three Cooling Unit

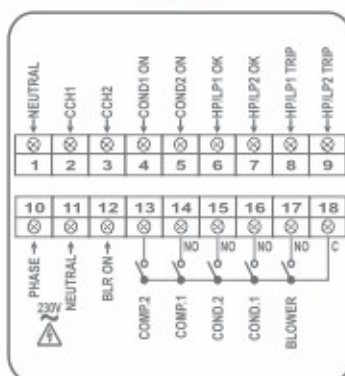


FEATURES	SZ-7574	SZ-7575	SZ-7576
Display: n° digits	2x14.2mm(0.56")LED	2x14.2mm(0.56")LED	2x14.2mm(0.56")LED
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	0°C to 50°C	0°C to 50°C	0°C to 50°C
Probe inputs			
Thermostat			NTC
Digital inputs			
HP / LP/ OSS / Phase Loss / Digital Door I/P	Yes	Yes (Separate i/p for each compressor)	Yes (Separate i/p for each compressor)
Relay Outputs			
Compressor	8(2)A	8(2)A	8(2)A
Compressor2		8(2)A	8(2)A
Compressor3			8(2)A
Condenser	8(2)A	8(2)A	8(2)A
Condenser2	8(2)A	8(2)A	8(2)A
Condenser3			8(2)A
Blower	8(2)A	8(2)A	8(2)A
Others			
Buzzer	Yes	Yes	Yes

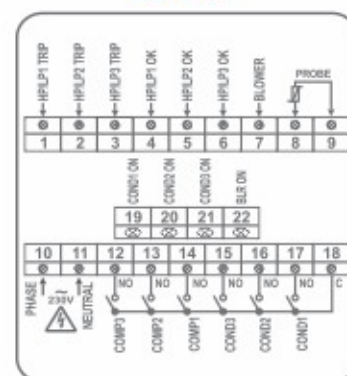
SZ-7574



SZ-7575



SZ-7576



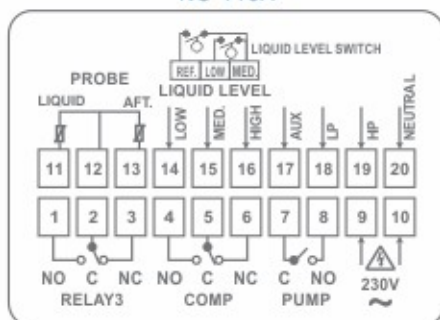
PROCESS CHILLER CONTROLLERS



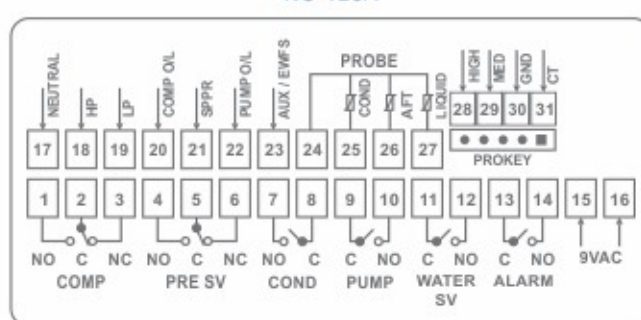
NC-110	Chiller Controller with Small LCD (res. 0.5°C)
NC-120	Chiller Controller with Small LCD (res. 0.1°C)
PiCOCHILL	Chiller Controller with Customized Dual Display (res. 0.5°C)
MICROCHILL	Chiller Controller with LCD + LED

FEATURES	NC-110A	NC-120A	PiC-165	MICROCHILL
Display: n° digits	16X2 Small LCD	16X2 Small LCD	4X8.6mm (0.33") 7 segment 4X4.9mm (0.27") 7 segment	3x9.1mm(0.36")LED + 16x2 LCD
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Temperature Range	-30°C to +50°C (res. 0.5°C)	-30°C to +50°C (res. 0.1°C)	-30°C to +80°C (res. 0.5°C)	-30°C to +50°C
Probe inputs				
Control (Liquid)	NTC	NTC	NTC	NTC
Antifreeze	NTC	NTC	NTC	NTC
Condenser		NTC		
Flow Sensor Input			2 to 30 LPM (for 1/2"3/4" &) 1 to 60 LPM (for 1")	
Digital inputs				
HP, LP, AUX, Comp O/L, Cond O/L, Pump O/L, SPPR, EWFS, CWFS, Water Level	Yes (for HP, LP, AUX)	Yes (for HP, LP, Comp OL, SPP, PUMP OL, AUX)	Yes (for HP, LP, AUX/WFS, Comp OL, FAN O/L, PUMP O/L SPP, Water Level)	Yes
Relay Outputs				
Compressor	8(3)A	8(3)A	20(8)A	8(3)A
Fan			10A	
Pump	5A	5A	10A	5A
Condenser		5A		5A
Water SV	5A	5A		5A
Precision SV		5A		
Alarm	5A	5A	5A	
Others				
Buzzer				Yes

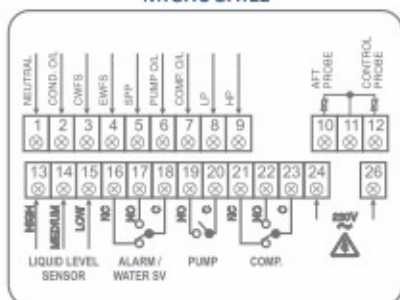
NC-110A



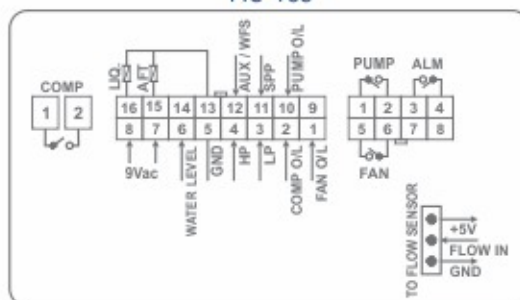
NC-120A



MICROCHILL



PiC-165



PROCESS CHILLER CONTROLLERS

PiCOCHILL +

Chiller Controller with Customized Dual Display

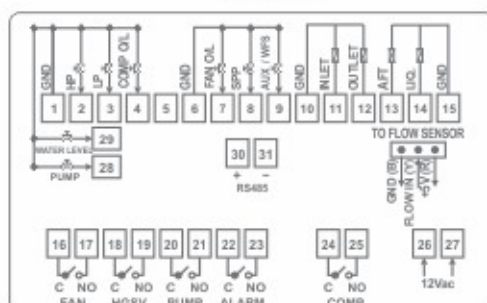
MEGACHILL PRO

Smart Chiller Controller with Touch Display



FEATURES	PiC-190	MEGACHILL PRO
Display: n° digits	4X16.5mm (0.40") 14 segment 4X9mm (0.35") 7 segment	7 inch Touch Display
Power supply		24VDC
Temperature Range	-20.0°C to +50.0°C (0.5 Res)	-40.0°C to +90.0°C
Probe inputs		
Control (Liquid)	NTC	NTC
Antifreeze		NTC
Condenser		NTC
Flow Sensor Input	2 to 30 LPM (for ½"3/4" &) 1 to 60 LPM (for 1")	
Analog inputs		
Discharge Pressure and Suction Pressure		Yes
Transmitter / CT		Yes
Digital inputs		
HP, LP, AUX, Comp O/L, Cond O/L, Pump O/L, SPPR, EWFS, CWFS, Water Level	HP, LP, Comp O/L, Cond O/L, Pump O/L, SPPR, WFS/AUX, Water Level	HP, LP, Comp O/L, Cond O/L, OSS Pump O/L, SPPR, WFS/AUX, Water Level EWFS, CWFS
Relay Outputs		
Compressor	20A	8(3)A
Fan	10A	
Pump	10A	5A
Condenser	10A	5A
Water SV		5A
Precision SV		5A
HGSV	10A	
Alarm	5A	5A
Others		
Buzzer		RS485
Serial output		
Application		Screw/Scroll/Bitzer Compressor Capacity Control Logic

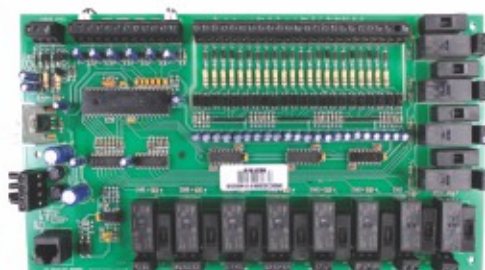
PiC-190



MEGACHILL | Chiller Controller upto three compressor with Split Board



User Interface



Relay Board

Dimensions : 205 X 160mm
Panel Cutout : 167 X 124mm

FEATURES	Megachill 1 Comp.	Megachill 2 Comp.	Megachill 3 Comp.
Display: n° digits	3x14.2mm (0.56")LED + 16X2 LCD	3x14.2mm (0.56")LED + 16X2 LCD	3x14.2mm (0.56")LED + 16X2 LCD
Power supply	230VAC Standard. Others on request	230VAC Standard. Others on request	230VAC Standard. Others on request
Temperature Range	-30°C to +50°C (res. 0.5°C)	-30°C to +50°C (res. 0.5°C)	-30°C to +50°C (res. 0.5°C)
Probe inputs			
Control (Liquid)	NTC	NTC	NTC
Antifreeze	NTC	NTC	NTC
Condenser In	NTC	NTC	NTC
Condenser Out	NTC	NTC	NTC
Digital inputs			
HP, LP, OSS, AFT, Comp O/L, Cond O/L, Pump O/L, SPP, CWFS, EWFS, Medium Water Level, Low Water Level, R, Y, B	Yes	Yes	Yes
Relay Outputs			
Compressor	8(3)A	8(3)A	8(3)A
Compressor2		8(3)A	8(3)A
Compressor3			8(3)A
Pump	5A	5A	5A
Condenser	5A	5A	5A
Condenser2		5A	5A
Condenser3			5A
Pump down SV		5A	5A
Pump down SV2		5A	5A
Pump down SV3			5A
Water SV	5A	5A	5A
Reset	5A		
Alarm	5A	5A	5A
Others			
Buzzer	Yes	Yes	Yes

TEMPERATURE & RH CONTROLLERS

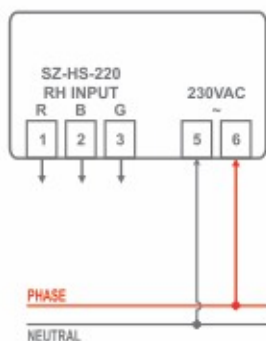


Dimension : 75x34.5mm

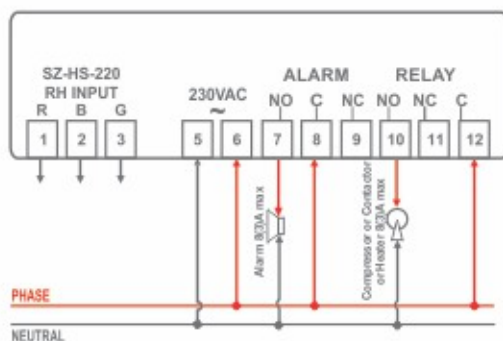
SZ-2710	RH Indicator (Humidity Range : 30% to 90%)
SZ-2910	RH Indicator (Humidity Range : 0% to 99%)
SZ-2711	RH Controller (Humidity Range : 30% to 90%)
SZ-2911	RH Controller (Humidity Range : 0% to 99%)
SZ-9912	Temperature & RH Controller (Humidity Range : 30% to 90%)
SZ-9922	Temperature & RH Controller (Humidity Range : 0% to 99%)

FEATURES	SZ-2710 / SZ-2910	SZ-2711 / SZ-2911	SZ-9912 / SZ-9922
Display: n° digits	2x14.2mm(0.56") LED	2x14.2mm(0.56") LED	3x14.2mm(0.56") LED
Power supply	230VAC Standard.	230VAC Standard.	9VAC Standard.
Temperature Range	Humidity : 30% to 90% / 0% to 100%	Humidity : 30% to 90% / 0% to 100%	Temp : 0°C to 99.9°C Humidity : 30% to 90% / 0% to 100%
Probe inputs			
Thermostat			PT-100
RH	SZ-HS-220 / SZ-HS-100	SZ-HS-220 / SZ-HS-100	SZ-HS-220 / SZ-HS-100
Relay Outputs			
Compressor			8(3)A
Humidifier / Dehumidifier		8(3)A	8(3)A
Alarm		8(3)A	
Others			
Buzzer			

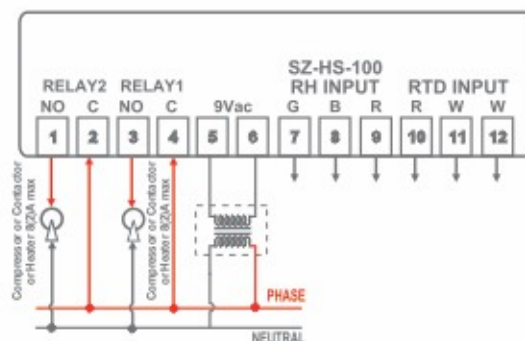
SZ-2710



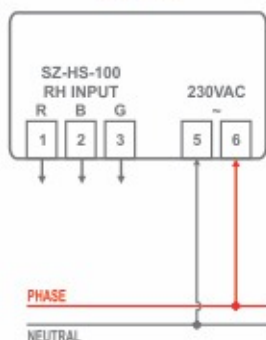
SZ-2711



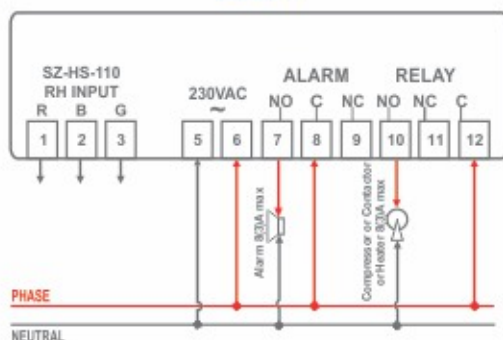
SZ-9922



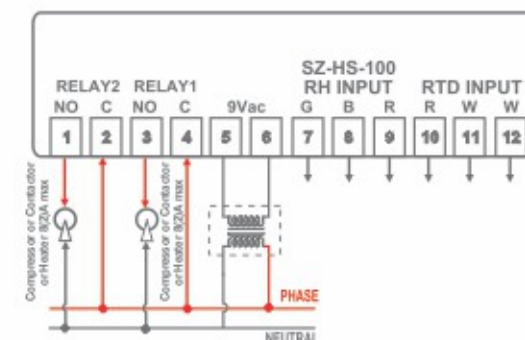
SZ-2910



SZ-2911



SZ-9922



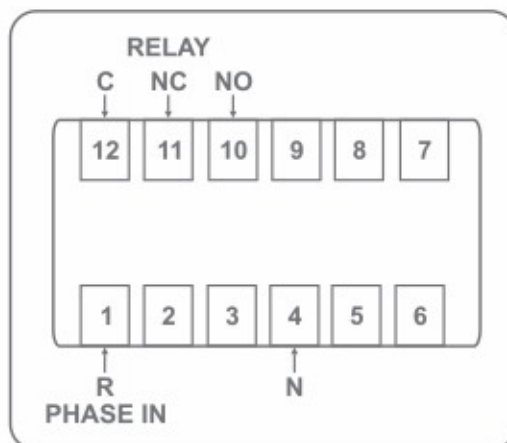
LINE VOLTAGE MONITOR (LVM)

VMRC-10/1	Single Phase Voltage Monitor
VMRC-10/3	Three Phase Voltage Monitor

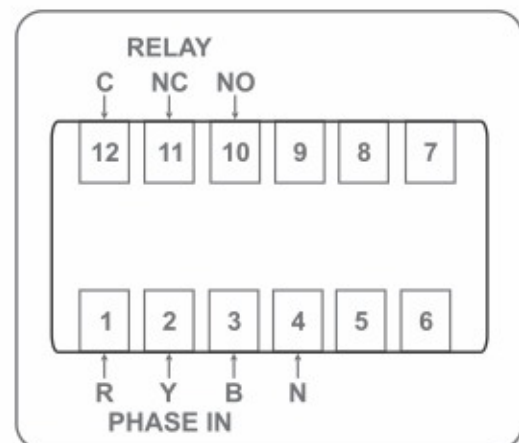


FEATURES	VMRC-10/1	VMRC-10/3
Display: n° digits	3x14.2mm (0.56")LED	3x14.2mm (0.56")LED
Voltage Monitoring	Yes	Yes
UV & OV Detection	Yes	Yes
Settable UV and OV Parameter	Yes	Yes
Phase Sequence Monitoring		Yes
Phase Loss & Phase Unbalance-detection		Yes
Inputs		
R Phase	Yes	Yes
Y Phase		Yes
B Phase		Yes
Neutral	Yes	Yes
Relay Outputs		
Alarm	5A	5A
Others		
Buzzer		

VMRC-10/1



VMRC-10/3

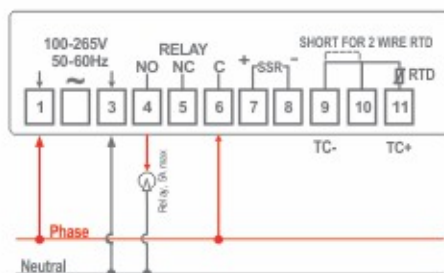


SZ-7081 | Single Set point Controller
PT244-T | TEXT

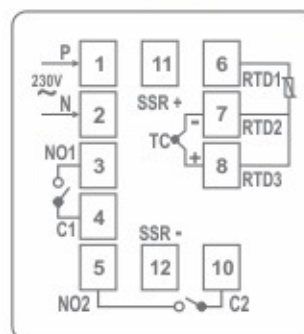


FEATURES	SZ-7081	PT244-T
Panel Cutout	29X71	45.5X45.5
Display: n° digits	4x14.2mm (0.56")LED	4x17mm 7 segment Red/White display 4x8mm 7 segment Green display
Power supply	100 to 265VAC Standard.	230Vac +/- 15%, 50/60Hz Standard 85 to 265Vac, 12/24Vdc on request
Temperature Range		
J type thermocouple	0°C to 700°C	-50°C to 700°C
K type thermocouple	0°C to 999°C	-50°C to 1200°C
2 wire RTD	-99°C to 850°C	-99°C to 400°C
3 wire RTD	-99.9°C to +99.9°C	-99.9°C to +400.0°C
Resolution	1°C (for 2 wire RTD, J, K) 0.1°C (for 3 wire RTD)	1°C (for 3 wire RTD, J, K) 0.1°C (for 3 wire RTD)
Probe inputs		
J	Yes	Yes
K	Yes	Yes
RTD	Yes	Yes
Relay Outputs		
Relay 1	5A	5A
Relay 2		5A
SSR Out		10A

SZ-7081



PT244-T

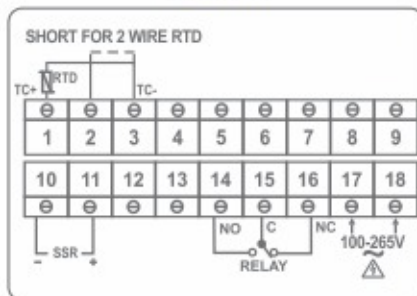


SZ-7031	Single Set Point Controller
SZ-7032	Two Set Point Controller
SZ-7033	Three Set Point Controller
SZ-7034	Four Set Point Controller

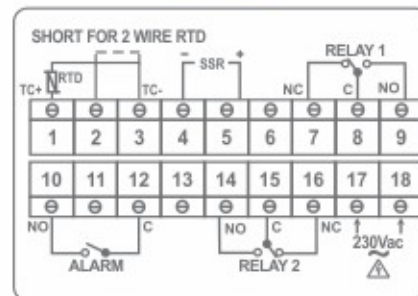


FEATURES	SZ-7031	SZ-7032	SZ-7033	SZ-7034
Panel Cutout	92X92	92X92	92X92	92X92
Display: n° digits	4x14.2mm (0.56")LED	4x14.2mm (0.56")LED	4x14.2mm (0.56")LED	4x14.2mm (0.56")LED
Power supply	100 to 265VAC Standard.	230VAC Standard.	100 to 265VAC Standard.	100 to 265VAC Standard.
Temperature Range				
J type thermocouple	0°C to 700°C	0°C to 700°C	0°C to 700°C	0°C to 700°C
K type thermocouple	0°C to 999°C	0°C to 999°C	0°C to 999°C	0°C to 999°C
2 wire RTD	-99°C to 850°C	-99°C to 850°C	-99°C to 850°C	-99°C to 850°C
3 wire RTD	-99.9°C to +99.9°C	-99.9°C to +99.9°C	-99.9°C to +99.9°C	-99.9°C to +99.9°C
Resolution	1°C (for 2 wire RTD, J, K) 0.1°C (for 3 wire RTD)	1°C (for 2 wire RTD, J, K) 0.1°C (for 3 wire RTD)	1°C (for 2 wire RTD, J, K) 0.1°C (for 3 wire RTD)	1°C (for 2 wire RTD, J, K) 0.1°C (for 3 wire RTD)
Probe inputs				
J	Yes	Yes	Yes	Yes
K	Yes	Yes	Yes	Yes
RTD	Yes	Yes	Yes	Yes
Relay Outputs				
Relay 1	5A	5A	5A	5A
Relay 2		5A	5A	5A
Relay 3			5A	5A
Relay 4				5A
Alarm		5A	5A	5A

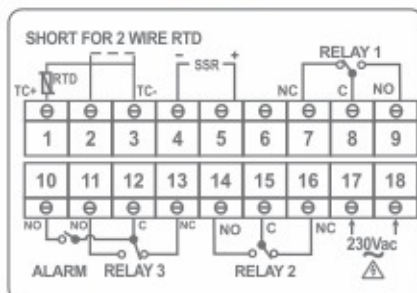
SZ-7031



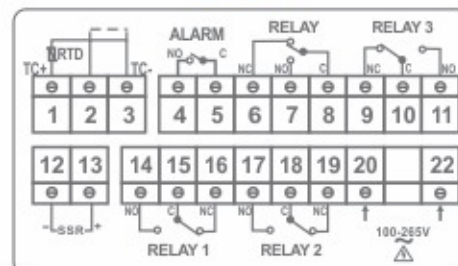
SZ-7032



SZ-7033



SZ-7034



FRUIT RIPENING CONTROLLERS

SZ-FR-2000	Time Based / Automatic Fruit Ripening System
SZ-FR-1000	Manual Gas Dispensing Unit

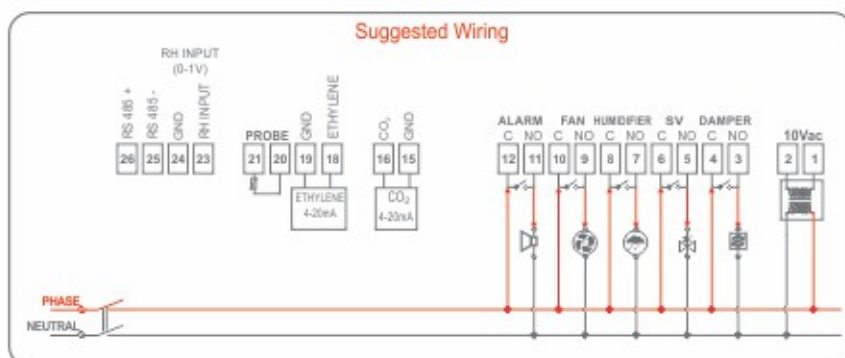


Dimensions : 210x121mm

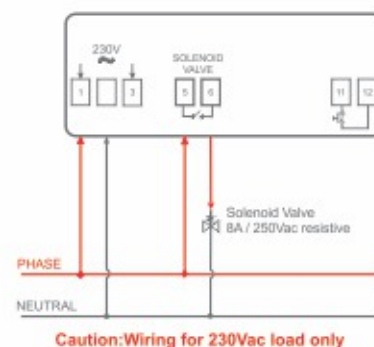


FEATURES	SZ-FR-2000	SZ-FR-1000
Display: n° digits	7 Segment LED Display + 16X2 LCD	3x14.2mm(0.56")LED
Power supply	10VAC	230VAC Standard. Others on request.
Temperature Range	0 to 50°C (NTC Sensor) 0 to 1 % (CO ₂ Sensor) 0 to 999 ppm (Ethylene Sensor) 0 to 100 % (Humidity Sensor)	
Probe inputs		
Thermostat	NTC	
CO ₂	4 - 20mA	
Ethylene	4 - 20mA	
RH	0 - 1 Volt	
Digital inputs		
HP / LP / OSS / Phase Loss/ Digital Door I/P		Yes
Relay Outputs		
Fan	8(3)A / 250VAC	
Humidifier	10A / 250VAC	
SV	10A / 250VAC	
Alarm	5A / 250VAC	
Damper	10A / 250VAC	8(3)A
Others		
Buzzer		
Serial Output (RS 485)	Yes	

SZ-FR-2000



SZ-FR-1000





SZ-75651-C3	Dual AC Temperature cum ATM Controller
SZ-7664-FC	Temperature Controller with Emergency Freecooling
SZ-FC-5000	Temperature Controller with Emergency Freecooling

Dimension : 200x227mm Dimension : 214x168.5mm



FEATURES	SZ-75651-C3	SZ-7664-FC	SZ-FC-5000
Display: n° digits	2x14.2mm(0.56")LED	2x14.2mm(0.56")LED	2x14.2mm(0.56")LED
Power supply	230VAC	48VDC	48VDC
Temperature Range	0°C to 50°C	0°C to 80°C	0°C to 50°C
Probe inputs			
Thermostat	NTC	NTC	NTC
Ambient	NTC	NTC	NTC
Humidity	NTC		RH
Current Sensing Voltage	Yes		Yes
Digital inputs			
HP, LP, UL, OL, MCB1, MCB2, DC fan fault sensing, Comp fail Alarm, Comp ON F/B	Yes	Yes	Yes
Relay Outputs			
Compressor	20A		20A
Compressor2	20A		20A
Damper			8(2)A
Damper2			8(2)A
Fan		5A	0-10V
Fan2			0-10V
AC1 Fail Alarm			5A
AC2 Fail Alarm			5A
Alarm	5A		5A
Alarm2	5A		
HT Alarm	5A	5A	
Comp-Lock		5A	
Logger		5A	
Others			
Buzzer			
Serial output	RS485 / RS232		

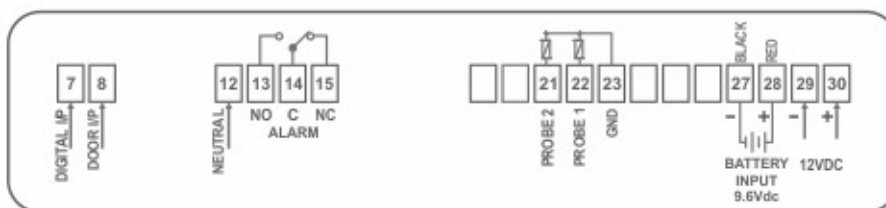
ALERT SYSTEM / AQI / LARGE INDICATOR

SZ-81130	Remote Alert System
SZ-81140	Air Quality Indicator
SZ-81145	Temperature / RH Indicator

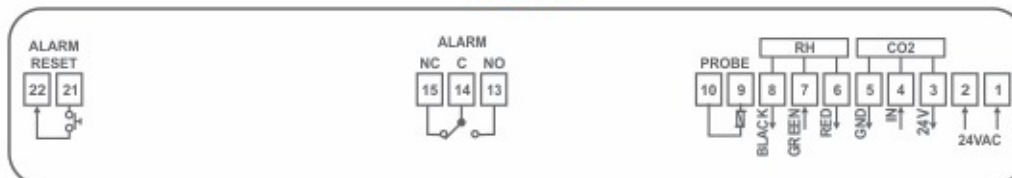


FEATURES	SZ-81130	SZ-81140	SZ-81145
Display: n° digits	128X64 Graphic LCD	4x58.4 mm (2.3") Red LED 3x58.4 mm (2.3") Green LED 2x58.4 mm (2.3") Amber LED	3x101.6 mm (4") LED
Power supply	230VAC Standard. Others on request.	230VAC Standard. Others on request.	230VAC Standard. Others on request.
Probe inputs			
Thermostat	NTC x 2 (More on request)	NTC	NTC
RH		HS-100	4-20mA
CO ₂		4-20mA	
Range	-40°C to 99°C	-40°C to 99°C (Temp. Sensor) 0 to 1000ppm (CO ₂ Sensor) 0 to 99% (RH Sensor)	-50.0 to 99.9°C (Room Temperature) 0 to 100% (RH Sensor)
Digital inputs			
Power Fail / Door Open	Yes		
Relay Outputs			
Alarm	8(3)A	5A	5A
Others			
Buzzer			Yes
Battery Backup	Yes		
SMS Alert	Yes		

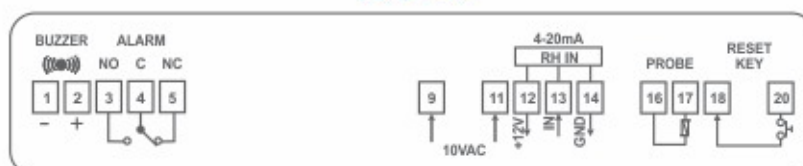
SZ-81130



SZ-81140



SZ-81145



Sensors



Standard NTC Sensor



Standard NTC Sensor



1/2" BSP Sensor



Humidity Sensor

CO₂ Sensor



RH Sensor



Ammonia Sensor



NOTES

A series of horizontal dotted lines for writing notes.