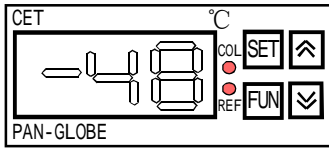


1、Panel function and keys

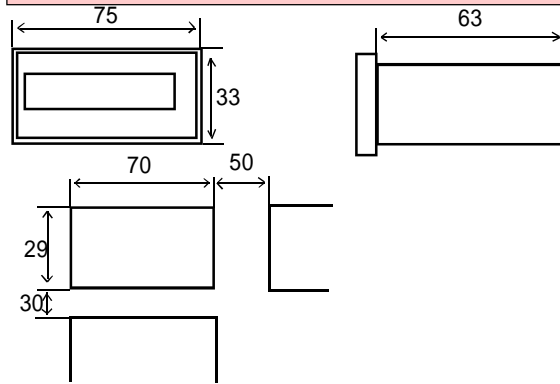


- ①: “-48”: Real measure date (red)
- ②: “COL”: Compressor operating indicator (red)
- ③: “REF”: Defrost operating indicator (red)
- ④: “SET”: SET key, press the SET key for one second to display the set point value and can change it
press the key for five seconds can change the other menu
- ⑤: “FUN”: FUN key,when change the parameter,press the key can change the value.
- ⑥: “↑” UP key, increase the set point value
- ⑦: “↓” DOWN key, decrease the set point value

2、Characteristics index

Power voltage	230Vac ± 10% 50/60Hz(CET-230V) 12Vac ± 10% 50/60Hz OR 11~17Vdc (CET-12V)
Power consumption	< 3W
Relay contact capacity	250VAC/8A
Signal input	NTC Std 10K Ω at 25℃
Insuated resistance	≥ 100M Ω
Insulation intensity	2KV/0.5mA One minute
Resisting irrelated signal interference	Power: ± 2KV Input: ± 400V
Resisting vibration	10~55Hz; 0.75mm
Ambient	-10~50℃ 0~90% RH
Degree of protection	IP65
Storage temperature	-20~80℃
Impedance input	≥ 10K Ω
Measuring range	-50~99℃
Accuracy	1%FS ± 1DIGIT
Resolution	1℃

3、Dimension and panel cut out

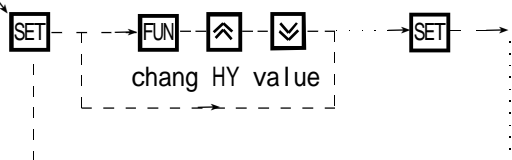


4、List of parameters type

SV	Set value
HY	Compressor regulator
HSE	Maximum possible setpoint value
LSE	Minimum possible setpoint value
HC	Heat/Cool mode, H:heat mode, C:cool mode
ONT	Regulator protective devices:If set to “1” with OFT at “0”,the regulator is always off, while at OFT>0,it functions always in duty cycle mode.
OFT	Regulator in disabled state time in the event of a faulty poobe.If set to “1” with ONT at “0”, the regulator is always off,while at ONT>0,it functions always in duty cycle mode.
DON	Delay time in activating the regulator relay after switch-on of instrument.
DOF	Delay after switch off.The indicated time must elapse between switch-off of the regulator relay and the successive switch-on.
DBI	Delay between switch-ons.The indicated time must elapse between two successive switch-ons of the regulator.
ODO	Delay time in activating the outputs after switch-on of the instrument or after a power failure
POS	Positive or negative temperature value added to the value
CF	Selection of °C or ° F to view the temperature read by the probe.
END	End defrost temperature
VON	Time during one deforst
VCY	Time interval between two deforst cycles
LCK	Password,When LCK=123 all the parameters can be modify. When LCK=other:all the parameters can not be modify except SV

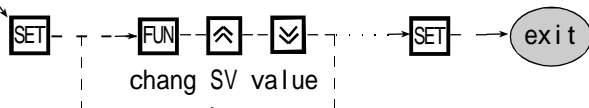
5、Key operation

Press 5 sec



Do no operation after 1 minute it can exit the mode and all the parameters can be saved

Press 1 sec

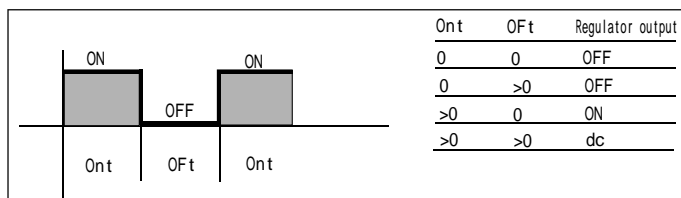


Do no operation after 1 minute it can exit the mode and all the parameters can be saved

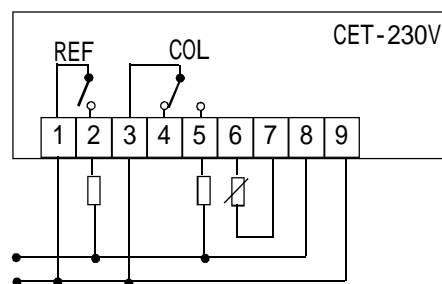
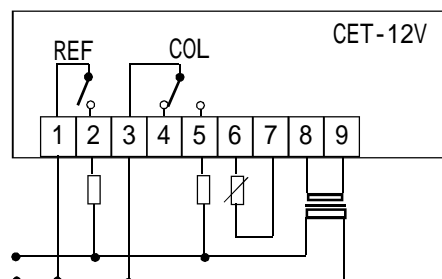
6、Parameters-default settings

PAR.	RANGE	DEFAULT	U.M
SV	LSE --- HSE	-10	°C/°F
HY	0 --- 30	2	°C/°F
HSE	LSE --- 99	99	°C/°F
LSE	-50 --- HSE	-49	°C/°F
HC	H/C	C	flag
ONT	0 --- 125	0	min
OFT	0 --- 125	1	min
DON	0 --- 250	0	sec
DOF	0 --- 250	0	min
DBI	0 --- 250	0	min
ODO	0 --- 250	0	min
POS	-50 --- 50	0	°C/°F
CF	C/F	C	flag
END	0 --- 250	10	°C/°F
VON	0 --- 250	0	min
VCY	0 --- 250	0	min
LCK	0 --- 250	0	number

7、Duty cycle diagram



8、Connections



note (12-230V)

1-2 N.O. defrost relay output

3-4 N.C. regulator relay output

3-5 N.O. regulator relay output

6-7 Sensor input

8-9 Power supply CET-230V: 230Vac ± 10%

CET-12V: 12Vac ± 10% OR 11~17Vdc