



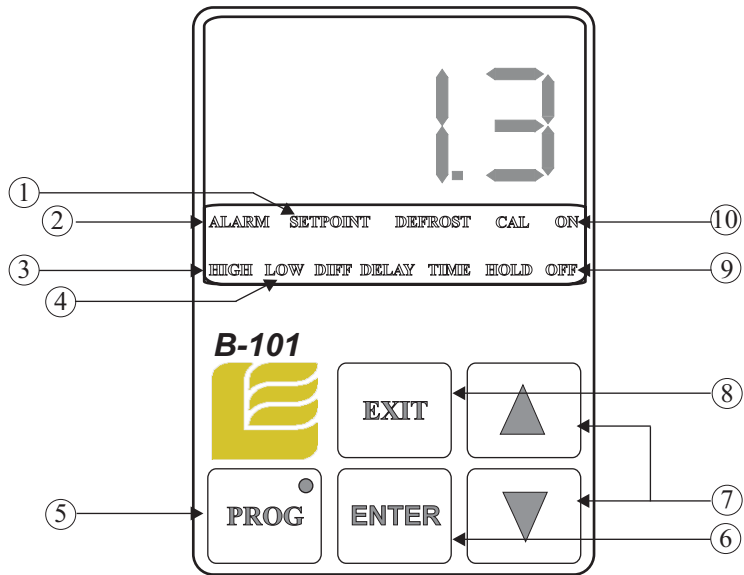
B-101

Temperature Controller

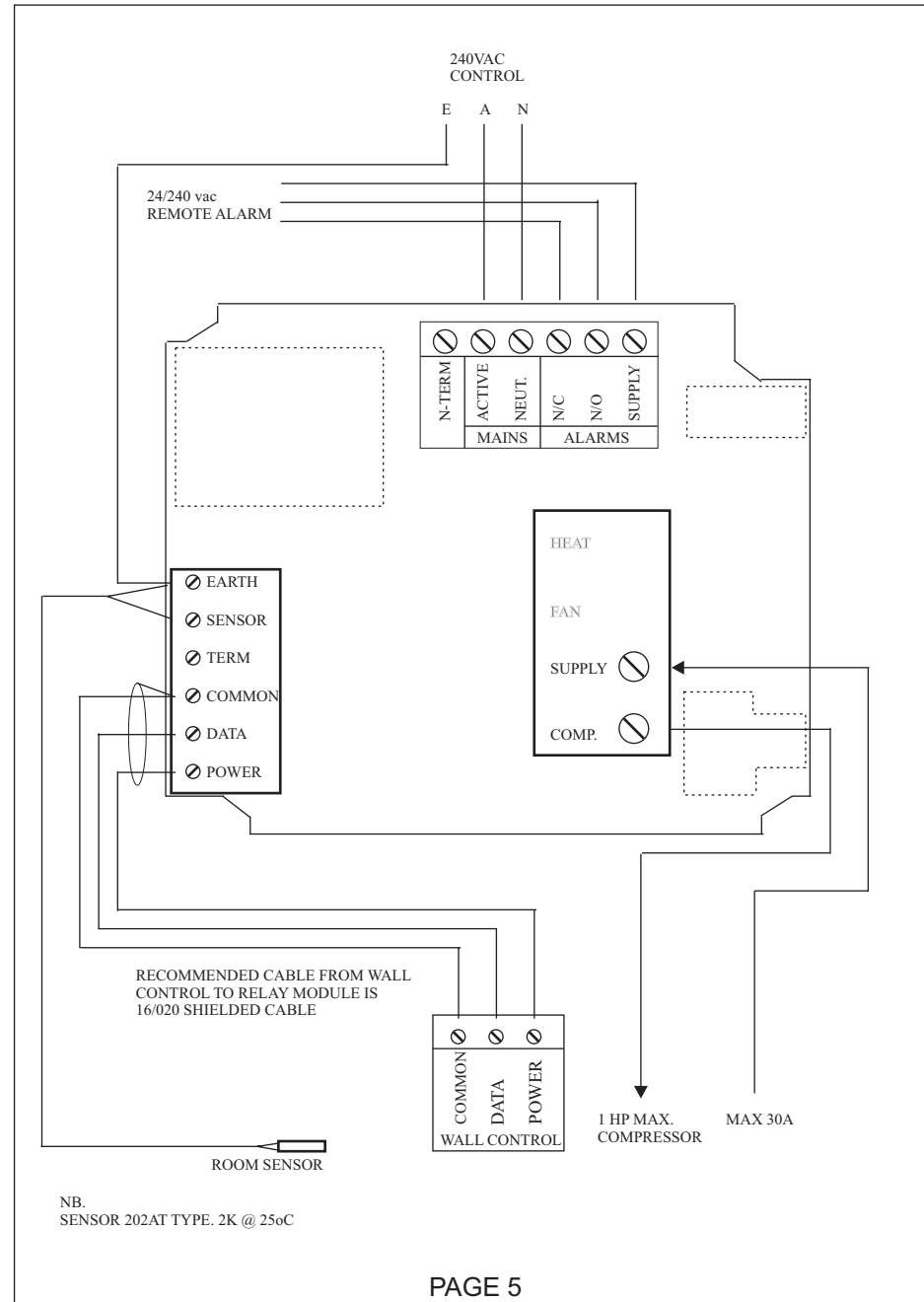


FEATURES

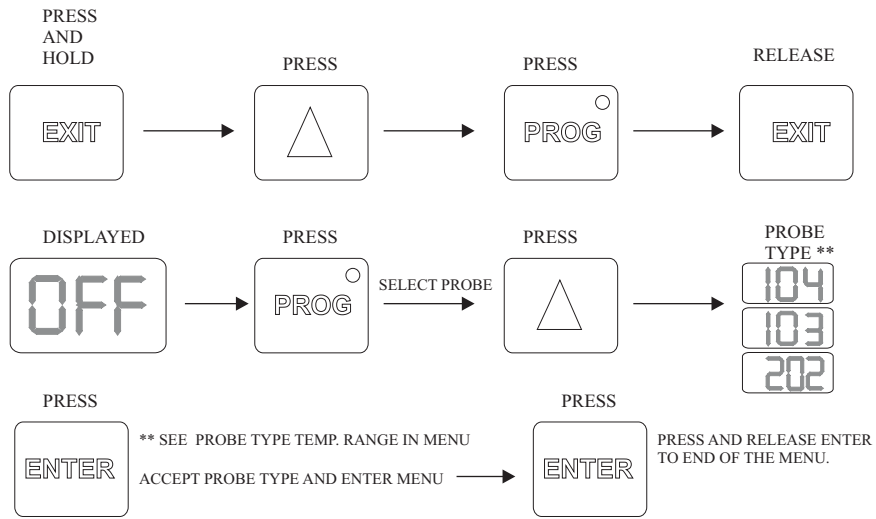
- EXTRA LARGE DISPLAY SCREEN
- TEMPERATURE LOGGING
- DEFROST CYCLES
- DEFROST TERMINATION TIME
- COMPRESSOR ANTI CYCLING ON TIME
- COMPRESSOR ANTI CYCLING OFF TIME
- ADJUSTABLE TEMPERATURE SET POINT AND SWITCHING DIFFERENTIALS
- SENSOR CALIBRATION
- HIGH/LOW TEMPERATURE ALARM WITH DELAY
- ALL PARAMETERS MENU ADJUSTABLE



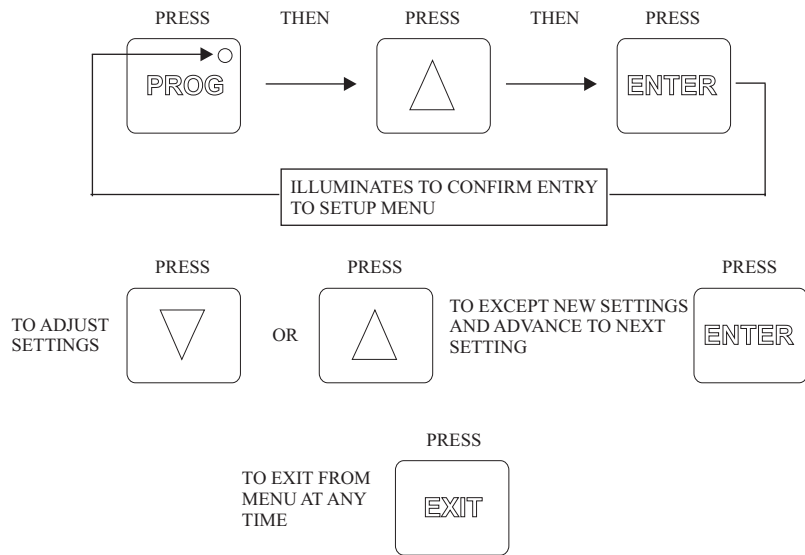
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7. FACTORY DEFAULT SETTING.



8. TO ENTER PROGRAM MENU



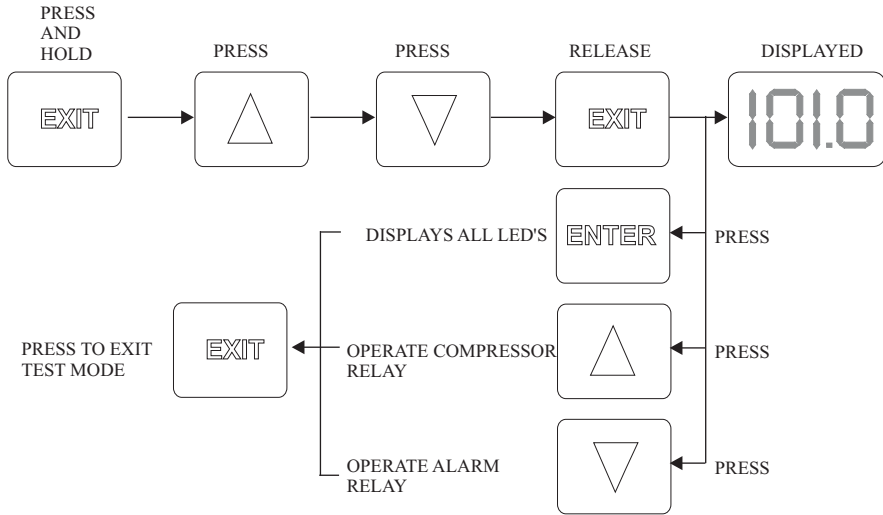
	PROGRAM REQUEST	DISPLAY LED'S	FACTORY DEFAULT	ADJUSTMENT INCREMENTS	RANGE
NB	PROBE TYPE	202 103 104	202		-40oC to 40oC 0.0oC to 99oC 60oC to 180oC
A	SET POINT	SET POINT	1.0oC	0.5oC	Dependent on Probe
B	OFFSET CALIBRATION	SET CAL	0.0oC	0.1oC	-5oC to 5oC
C	DIFFERENTIAL	DIFF	1.0oC	0.1oC	0.1oC to 10oC
D	HIGH ALARM	ALARM HIGH	3.0oC	0.1oC	0.1oC to 10oC
E	LOW ALARM	ALARM LOW	1.0oC	0.1oC	0.1oC to 10oC
F	ALARM DELAY	ALARM DELAY	30 Min	1 Min	0 to 180 Mins
G	ALARM HOLD OFF	ALARM HOLD	ON	ON/OFF	
H	CYCLE ON TIMER	CP 0.0 ON	0.0 Min	0.1 Min (6 Secs)	0 to 6 Mins
I	CYCLE OFF TIMER	CP 3.0 OFF	3.0 Min	0.1 Min (6 Secs)	0 to 6 Mins
J	HEATING OR COOLING		C	H	HEATING OR COOLING
K	DEFROST CYCLE	DEFROST OFF	24 Hrs	1 Hour	0 to 24 Hrs
L	DEFROST TIME	DEFROST ON	60 Min	5 Min	0 to 120 Mins
M	LOGGING SAMPLE RATE	TIME	0.1 Hr (6 Min)	0.1 Hr (6 Min)	0.1 to 25 Hrs

NB Screen display ONCE ONLY on FACTORY DEFAULT RESET

- A Compressor Off set point.
- B Calibration adjustment between Sensor and Wall Control temperature indication.
- C Compressor on temperature above set point.
- D Temperature setting above set point and differential.
- E Temperature setting below set point.
- F Alarm time delay. Please note that ALARM will indicate on controller during delay.
- G Deactivates alarm for commissioning. Only operates once. Set to ON to deactivate Alarm
- H Minimum ON time for compressor.
- I Minimum OFF time for compressor.
- J Select controller to operate in heating or cooling.
- K Time between Defrost Operation.
- L Time System is in defrost mode.
- M See section on temperature logging.

11. TEST MODES

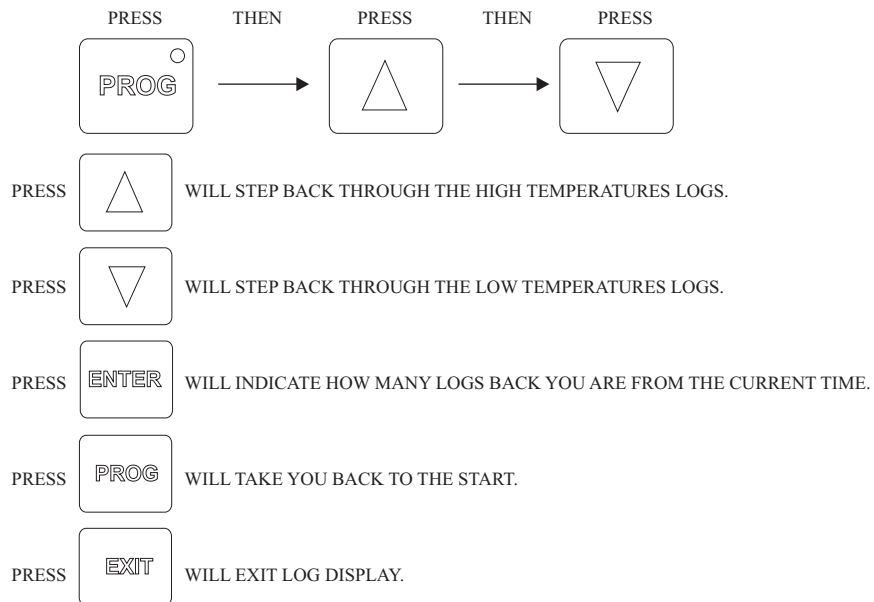
IN TEST MODE, RELAY OUTPUTS AND REMOTE DISPLAY LED'S CAN BE CHECKED



12. LOGGING

THE LE101 WILL LOG AND DISPLAY 512 HIGH AND LOW TEMPERATURE RECORDED IN THE SAMPLE RATE SET IN THE PROGRAM. EACH LOG IS THE HIGHEST AND LOWEST TEMPERATURE SEEN IN THAT SAMPLE TIME.

TO DISPLAY LOGGED TEMPERATURES



OPERATION

1. MEMORY

THE LE101 RETAINS ALL SETTINGS INTO PERMANENT MEMORY

2. HIGH AND LOW TEMP ALARMS.

THE LE101 HAS AN UPPER AND LOWER ALARM SETTING. AN ALARM IS SIGNALLED BY THE "ALARM" LED FLASHING AND BUZZER ON KEYBOARD DISPLAY. THE RELAY MODULE ALSO HAS 16AMP VOLT FREE CONTACTS FOR REMOTE ALARM. THERE IS ALSO A PROGRAMABLE ALARM DELAY WHICH CAN BE SET FROM THE KEYBOARD.

2B. TO RESET ALARM DELAY

WHEN AN ALARM DELAY HAS EXPIRED THE KEYBOARD BUZZER WILL SOUND AND THE ALARM RELAY ACTIVATES.

TO RESET THE ALARM DELAY. PRESS



3. ANTI CYCLE TIMERS

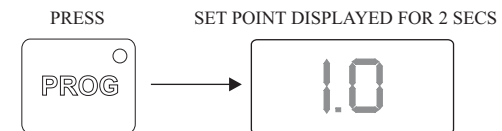
IF THE ANTI CYCLE ARE ACTIVATED WHEN A CALL TO RUN OR STOP IS INITIATED THE "DELAY" LED WILL FLASH.

4. PROBE FAULT

SHOULD THE TEMPERATURE PROBE OR ASSOCIATED WIRING BECOME FAULTY THE "ALARM" LED AND KEYBOARD BUZZER WILL SOUND, THE ALARM RELAY WILL GO INTO ALARM CONDITION AN E-15 WILL BE SHOWN ON DISPLAY AND THE COMPRESSOR CALL IS SHUT DOWN.

5. TEMPERATURE SET POINT.

NB. ROOM TEMPERATURE IS THE NORMAL DISPLAY.



6. TO CHANGE SET POINT

