

G-SERIES VOL. 3 NO. 0031 11/29/2017

TRAULSEN TECHNICAL BULLETIN

PRODUCT SERVICE DEPARTMENT

FORT WORTH, TX 76106

G-SERIES CONTROL RELEASE 2017

Introduction:

This technical bulletin is intended to aid the field in using the G series control head. This technical bulletin may not cover all situations that may arise in the field and final diagnosis of field based equipment is the sole responsibility of the technician contracted to perform any work required.



Display overview



Control button legend:

0	UNLOCK OR MODIFY KEY
0	PLUS/NEXT KEY
	MINUS/PREVIOUS KEY
X	EXIT/BACK KEY
	DISPLAY/ENTER KEY



TW Food Equipment Group

Unlocking the Keypad:

Pre	ess	Display	Press
Tap two times	0		

Turning the display on and off:

Pro	<u>ess</u>	<u>Display</u>	Display State
Hold 5 sec	0		NO DISPLAY
+			NORMAL DISPLAY

Adjusting temperature set point:

- Unlock Keypad
 Use Or Oto adjust Set Point
- 3. Press

Initiate manual defrost:

Press	<u>Display</u>
8 8	
Hold for 5 Seconds	



Service Menu:

The Service Menu contains 3 sub menus:

- CET (Sensor) Enables a technician to view various control & sensor statuses.
- LIE (Set) Allows a technician to change various control parameters.
- FIL (Alarm) Enables a technician to view various alarm states.

ACCESS CODE 555		
Press	<u>Display</u>	<u>Press</u>
Tap two times	•	
0		
0		
•		
See Table 1 for a list of LET	parameters	
To navagate to the LE		
Press	<u>Display</u>	<u>Press</u>
X		
•		
See Table 2 for a list of	parameters	
To navagate to the LEE		
Press	Display	Press
X		
•		
See Table 3 for a list of	parameters	





Parameter Tables:

1. To vi	ew Parameter press	
2. Pres	s 🛀 to return to Pa	rameter list
Mnemonic	Parameter	Description
_	Time Set	Local Time Set
rch	RH Snr Reset	Reset Count RH Sensor
La	Light Status	Cabinet Light Off/On
l ⁼ l:=l:=	Aux. Device Status	Auxiliary Device Status
	Light	Status Of Lights
	Door Open Count	Number Of Times Door Is Opened Since Defrost
	Door Switch	Closed/Open
	DH Duty Cycle	Door Heater Duty Cycle
ı=#=u=	Door Heater Cmd	Door Heater Status
dE c	Def. Device Status	Defrost Device Status
EdE	Cab. Tmp At Def.	Cabinet Temperature At Time Of Defrost
cFc	Cond. Fan Status	Condenser Fan Status
	Cab Fan Status	Evap Fan/Blower Off/On
	Compd cmd	Compressor Off/On
	Total Amps	Total Amps
┍┝凸	RH Snr Status	Relative Humidity Status
	Dew Point	Dew Point
-	Relative Humidity	Relative Humidity
	Dry Bulb/Rm Temp	Dry Bulb
	Aux Temp	Auxiliary Temperature
	Liquid Line Temp	Liquid Line Temperature
LE	Evap Coil Temp	Evaporator Line Temperature
Ec	Temp Cab Average	Average Cabinet Temperature

Table 1



The Food Equipment Group

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	Parameter	Tables	(Cont):
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1. To ac	ccess Parameter press	
2. Pres	s O to unlock parame	eter
3. Use	🗘 or 🗢 to adjust Par	ameter
4. Press	s to save settings	
5. Press	s 🛀 to return to Par	ameter list
Mnemonic	Parameter	Description
	Temp Cab SP	Temp Set point
	Daylight Savings	Daylight Savings time
	Time Zone	Time Zone
	Temp Units	Temperature Units
	Software Version	Software Version
	Serial Number	Serial Number
	Door Heater Relay	Door Heater Delay In Optimize Mode
	Door Heater Mode	Door Heater Control Mode
c#FE	Defrost Time 6	Defrost Time 6
	Defrost Time 5	Defrost Time 5
¦ ='	Defrost Time 4	Defrost Time 4
	Defrost Time 3	Defrost Time 3
dF 2	Defrost Time 2	Defrost Time 2
	Defrost Time 1	Defrost Time 1
ı	Defrost Interval	Interval Between Defrost
	Defrost Mode	Defrost Mode
	Defrost Setpoint	Defrost Set Point
╞╷╌╢┡	Fan Op. Door Open	Cabinet Fan Action When Door Opened
Frici	Cab Fan Mode	Fan Mode
	Aux. SP Diff	Auxiliary Set Point Differential
	Aux. Set Point	Auxiliary Set Point
	Temp Cab SP Diff	Cabinet Temperature Differential

Table 2



Parameter Tables (Cont):

|-||_ 1. To view Parameter press 2. Press to return to Parameter list Mnemonic Parameter Description Ecu Temp Cab At Power Up Cabinet Temp at power up LeF Temp Cab Alarm **Cabinet Temp Alarm Status** <u>|-|</u>||| Temp Liq Line Alarm Liq Line Temp Alarm Status Liq Line SD Alarm Liq Line Shutdown Status

Table 3

Error Codes:

Communication Error



Error 1



Error 2



Corrective Actions

- Press the reset button on the Main Board or power cycle the unit
- Replace the cable between the Main Board and the Display
- Replace the Display
- Replace the Main Board

Corrective Actions

Replace Main Board

Corrective Actions

- Press the reset button on the Main Board or power cycle the unit
- If it continues, replace the Main Board



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Control board overview:



Figure 2

Control board Troubleshooting:

<u>Note:</u> All components may be tested with direct power ONLY when disconnected from the board. DO NOT jumper power at the board.

LED indicators will illuminate when the control is calling for an output to be energized. See Figure 2.

Control Board Specifications:

Fuse	325/326 Series Lead-Free 3AB, Slo-Blo 20A fuse
Posot	To reboot the board press the reset button (See Figure 2) for 5 seconds or until all the LED lights
Reset	flash, shut off and then come back on again.
Toggle	Toggle switch disconnects power to all controls and components. When you turn on toggle switch
Switch	there is a 5 second time delay before start up.
Door Switch	12VDC to Door Switch. When you open door there is a 1 second delay before the light comes on.
Data	8 GB SanDisk USB drive logs data every 10 secs for up to 10 years
Logging	
High	All high voltage component outputs can be isolated from the rest of the circuit by disconnecting
Voltage	their respective 2 pin connector form the board. <i>All components may be tested with direct power</i>
Outputs	ONLY when disconnected from the board. DO NOT jumper power at the board.



Wire Diagram:



Contact Traulsen Technical Service:

If further assistance is needed feel free to contact Traulsen Technical Service at 800-825-8220 between the hours of 7:30am – 11:30am CST & 12:30pm – 4:30pm CST.