



CONFIGURATION GUIDE FOR BYPASS CONTROLLER

Refer to appropriate Installation, Service and Troubleshooting Instructions for complete information on the bypass controller.

To configure the bypass controller, press both upper or both lower information buttons simultaneously. The bypass controller will be in programming mode. See Fig. 1. The configuration screen will display the word "category" and the current category number in the lower left corner (numbered from 1 to 14). Press the left upper or lower information buttons to access the different configuration categories. Press the select (right

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lower information) button to accept the current category for modification. The word "option" will be displayed along with the current option number. The escape (right upper information) button can be used to return to the category screen. The categories will loop around when scrolling from 14 back to 1.

The left upper and lower information buttons are used to toggle through the options of each category. The option number is displayed in the lower right corner of the screen. See Table 1 for categories and options. When the desired option is shown on the screen, press the select button. The configurable data will flash. The left information buttons are used to toggle the data values. When the desired setting is shown, press the select button to store the change. To exit without saving changes, press both upper or both lower information buttons or press the escape button. See Fig. 1.

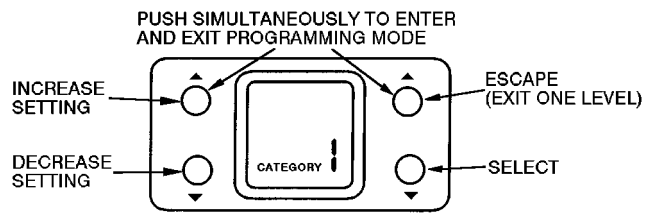


Fig. 1 — Bypass Controller Programming Mode Button Functions

Table 1 – Bypass Controller Categories and Options

OPTION	DESCRIPTION	DEFAULT	MINIMUM	MAXIMUM
CATEGORY 1.0 SET POINTS				
1.1	Cool Down Set Point (F)	80	72	87
1.2	Warm Up Set Point (F)	60	55	70
1.3	Fahrenheit Temperature Display	ON	OFF	ON
CATEGORY 2.0 OCCUPANCY SCHEDULE				
No configuration required.				

CATEGORY 3.0 DAMPER				
3.1	Maximum Damper Position	15	8	15
3.2	Minimum Damper Position	0	0	7
3.3	Pressure Sensor Error Damper Position	5	2	13
3.4	System Pressure Set Point	1.0	0.0	5.0
3.5	Stand Alone Operation	OFF	OFF	ON
3.6	Changeover Cycle	ON	OFF	ON
3.7	ZD/RD Actuator	ON	OFF	ON

OPTION	DESCRIPTION	DEFAULT	MINIMUM	MAXIMUM
CATEGORY 3.0 DAMPER (cont)				
3.8	Counterclockwise Open	ON	OFF	ON
3.9	Fan On Delay (seconds)	120	0	600
3.10	Fan Off Delay (seconds)	120	0	600
CATEGORY 4.0 HVAC EQUIPMENT				
No configuration required.				
CATEGORY 5.0 SENSORS				
5.1	Room Sensor	1	1	3

5.2	Zone Temperature Sensor Calibration (F)	Zone Temp.	30	180
5.3	Remote Room Sensor Calibration (F)	Room Temp.	30	180
5.4	Duct Temperature Sensor Calibration (F)	Duct Temp.	30	180
5.5	Pressure Sensor Range (in. wg)	2.0	0.0	5.0
5.6	Auto Zero Enable	OFF	OFF	ON
5.7	System Set Up Enable	OFF	OFF	ON

OPTION	DESCRIPTION	DEFAULT	MINIMUM	MAXIMUM
CATEGORY 5.0 SENSORS (cont)				
5.8	Pressure Sensor Calibration	System Pressure	-	-
5.9	Auto Pressure Set Point	OFF	OFF	ON
CATEGORY 6.0 SUPPLEMENTAL HEAT				
No configuration required.				
CATEGORY 7.0 DIAGNOSTICS/METERING				
7.1	Error Code Display	OFF	OFF	ON

7.2	Alternate Information	OFF	OFF	ON
7.3	Unit Reset	OFF	OFF	ON

CATEGORY 8.0 START-UP

8.1	Device Element Address	0	0	239
8.2	Access Security Level	1	1	4
8.3	Device Bus Number	0	0	239

CATEGORY 9.0 BROADCAST / DAYLIGHT SAVINGS TIME

No configuration required.

OPTION	DESCRIPTION	DEFAULT	MINIMUM	MAXIMUM
CATEGORY 10.0 HOLIDAY SCHEDULES				
No configuration required.				
CATEGORY 11.0 ALARM				
11.1	Equipment Priority	7	0	7
11.2	Communication Failure Retry Time (Minutes)	10	1	240
11.3	Re-Alarm Time (Minutes)	30	1	255

CATEGORY 12.0 OPTIMAL START

No configuration required.

CATEGORY 13.0 LOADSHED

No configuration required.

CATEGORY 14.0 INDOOR AIR QUALITY (IAQ)

14.1	System Indoor Air Quality Sensor	OFF	OFF	ON
14.2	Indoor Air Quality Pressure Set Point (in. wg)	0.0	0.0	5.0

OPTION	DESCRIPTION	DEFAULT	MINIMUM	MAXIMUM
CATEGORY 14.0 INDOOR AIR QUALITY (IAQ) (cont)				
14.3	Indoor Air Quality Alarm Delay (Minutes)	0	0	240

System Errors (SE) – System Errors occur when the bypass controller detects a bypass controller or system operating problem. System Errors are displayed by an "SE" and a number corresponding to the type of error. See Table 2 for a list of System Errors.

To clear a System Error, the system element causing the error must be reconfigured.

Table 2 – System Errors

ERROR CODE	SYSTEM ERROR DESCRIPTION	ALARM PRIORITY LEVEL
SE10	IAQ Exceeded Limit	2

Hardware Failure (HF) Errors – A Hardware Failure (HF) error is a error that corresponds to a hardware failure at the bypass controller or associated sensors. To clear a HF error, the component responsible for initiating the HF error must be adjusted, repaired, or replaced. See Table 3 for a description of HF errors. A Hardware Failure error is displayed by an "HF" and a number corresponding to the type of error.

Table 3 – Hardware Failure Errors

ERROR CODE	HARDWARE ERROR DESCRIPTION	ALARM PRIORITY LEVEL
HF01	Cannot Detect Open Damper	2
HF02	Cannot Detect Closed Damper	2

HF03	Zone Temperature Sensor Out of Range	2
HF04	Remote Room Sensor Out of Range	2
HF05	Duct Temperature Sensor Out of Range	2
HF06	Hardware NOVRAM Failure	2
HF07	Hardware Analog/Digital Failure	2
HF08	Pressure Sensor Out of Range	2



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