

SUBMITTAL



101ASSB **Gas / Electric System Controller**

DESCRIPTION

The 101ASSB is a microprocessor based, auto changeover gas / electric system controller. The 101ASSB supports 2 to 20 zones, utilizing pressure dependent, two position motorized dampers. Mode management is vote based, predicated upon first called, first served, with majority regulating changeover. Upon majority change, a four minute cycle timer is initiated in attempt to satisfy current mode callers. Upon time out, a successive four minute purge cycle is initiated prior to mode changeover.

The 101ASSB monitors zone demand via a stepped analog input, by means of a five-conductor copper daisy chain link. The link additionally provides 24V ac to all damper motors. Equipment control is provided through three dry contact terminals, with external capacity control.

Individual modes can be isolated for dedicated operation. LED's provide status for each mode, damper and system operation.

TECHNICAL DATA

Electrical:

Supply Voltage: 24V ac

Power consumption: 0.7 VA

Inputs:

- Measured: 24V ac
- Operating: 212mV to 3.64V ac

Outputs:

- 24V ac (to damper bus)
- 3- SPST dry contacts, 10A @ 125 V ac

Fuse protection: 1 amp

Environmental:

Operating temperature: 32 to 160° F (0 to 71° C)

Operating humidity: 10-95%, non-condensing

Storage temperature: 0 to 160° F (-18 to 71° C)

General:

Communications: 18/5 AWG

Dimensions: 7" H x 7" D x 2 1/2" D

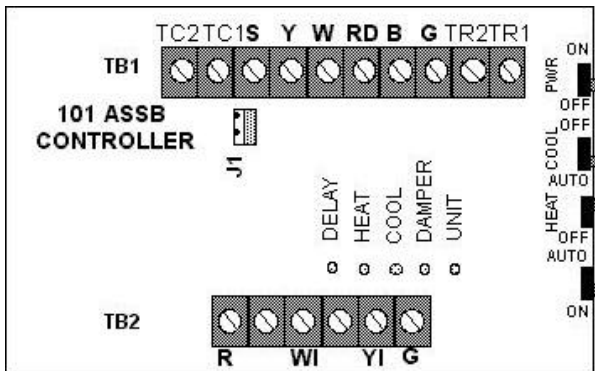
Enclosure: Enamel coated steel

101ASSB GAS / ELECTRIC SYSTEM CONTROLLER

ORDERING INFORMATION

Part No.	Description
101ASSB	System 2000 Gas/Electric Controller
Accessories	
TRLAT	Hi-Lo single stage capacity control
101CAPGE	Digital capacity control
CAPL-2	2 stage modulating gas/electric capacity control
CAPL-4	3-4 stage modulating gas/electric capacity control

TERMINAL FUNCTIONS



TB1

TC1, TC2- (Not applicable to System 2000)
S- (Not applicable to System 2000)
Y- Cooling input, 212mV – 3.6vac, from damper relay board(s)
W- Heating input, 212mV – 3.64vac, from damper relay board(s)
Rd- Damper close output, 24vac
B- 24V ac common, output to all dampers and relay boards
G- 24V ac power, output to all dampers and relay boards
TR2- 2vac common, from external transformer
TR1- 24vac power input, from external transformer

TB2

R- HVAC equipment 24V ac input
W1- 24vac heat output to equipment
Y1- 24vac cool output to equipment
G- 24vac blower output to equipment

FEATURES

- Vote based, auto changeover controller
- Supports 2-20 individual zones
- Analog communication via a patented 5 conductor buss between all thermostats
- Uses standard 18 gauge thermostat wire
- 24vac operation
- Automatic purge and ventilation modes
- Supports 1,2,3 or 4 compressor systems
- LED status indicators for all system functions
- Supports economizer operation