

# AP2110, AP2130

## Annunciator Panel

### Description

The Simplex **AP2110/AP2130 Annunciator Panel** is a self-contained, solid-state annunciator for remote indication of fuel system alarms/condition. The AP2110 monitors up to 10 points, the AP2130 up to 30 points. The AP2110/AP2130 will monitor any sensing device with normally open contacts which close on alarm. Indicators used are solid-state, extra-bright LED's. Green, red or amber, steady or flashing-red LED's are available. Indicators may be momentary or latch-in: momentary indicators turn-on and off with the remote contacts; latch-in contacts remain on until manually reset. Latch-in contacts require only a momentary pulse to activate. A re-occurring alarm horn is included in the AP2110/AP2130. Any indicator may have an audible alarm associated with it to sound simultaneous with the visual alarm. The alarm horn may be silenced without disturbing the visual indication but will reactivate on a subsequent alarm. A self-test circuit and a solid-state, isolated common alarm output are provided. The AP2110/AP2130 is powered from a 115-1-60 source. The unit includes a 115:12V Power Supply with 24 hour minimum battery backup. A battery float charger is included integral to the unit. The AP2110/AP2130 can be used with Simplex Tank Commander Electronic Level Indicators/Controllers, Reliable Fuel Supply Systems, Packaged Fuel Oil Day Tanks or Packaged Fuel Oil Pump Sets.

### Features

- Simple, economical
- Monitors up to 10 points (AP2110) or 30 points (AP2130)
- Buyer flexibility: specify legends, indicator functions
- Momentary or latch-in indicators
- Red, green or amber; steady or flashing-red indicators
- Built-in horn, specify to sound with any visual indicator



- Switchable via dip switches on back of unit
- Re-occurring horn activates on each incoming alarm
- Master alarm output
- 115V:12V power supply, battery back-up
- Uses ordinary 115V AC power input
- Provides 12V power supply output to alarm contacts
- 24 hour battery backup included, charger included
- Available for flush wall mounting, projection wall mounting, flush panel mounting, or outdoor mounting

### Available Indicators

Legends may be identified with a tank, such as "Low Fuel Level, Day Tank" or "Tank Rupture, Tank-5" or multiple sensors may be identified, such as "Pump Run-1", "Pump Run-2". Standard legends are shown at right.

	Color	Audible
Ready	Green	
Low Fuel Level	Red	X
High Fuel Level	Red	X
Overflow	Red	X
Tank Rupture	Red	X
Fuel Line Leak	Red	X
Pump Run	Yellow	
Pump Fail	Red	X
Loss of Flow	Red	X

	Color	Audible
Not Auto	Red	
Low Fuel Temp	Yellow	
Valve Open	Yellow	
Valve Closed	Yellow	
Power Available	Green	
Power Failure	Red	X
Water In Fuel	Red	
Refill Reminder	Yellow	

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### Dimensions and Key Features

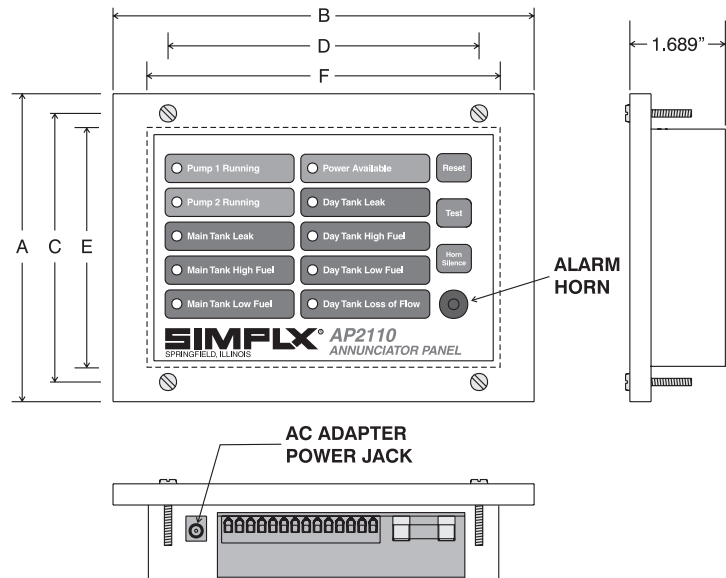
#### AP2110

5.446" x 7.446" (A x B)  
 5.25" x 4.75" (C x D)  
 6.25" x 4.25" (E x F)\*

#### AP2130

8.518" x 10.346" (A x B)  
 7.75" x 8.40" (C x D)  
 7.25" x 9.50" (E x F)\*

\*E x F is cutout size



### Engineers Specification

Options are noted in parentheses

#### 1.0 Fuel System Annunciator

1.1 A remote fuel system annunciator shall be provided for installation at the (specify location). Visual and audible indicators with colors and functions as noted below shall be provided. The annunciator shall be of solid-state construction.

1.2 The annunciator shall include a 115V AC:12V DC power supply with 24 hour battery backup and battery charger. This supply shall be used to provide a 12 VDC output to power all remote alarm contacts.

#### 1.3 The annunciator shall include the following:

1.3.1 Extra-bright light emitting diode indicators; red, green, amber; steady or flashing red as indicated below

1.3.2 Momentary or latch-in indicators, as specified below

1.3.3 Audible alarm horn activated as specified below

1.3.4 Re-occurring audible alarm to activate on each incoming alarm

1.3.5 Self-test pushbutton to test-activate all indicators

1.3.6 Audible horn silence pushbutton to silence horn but allow subsequent activation on new incoming alarms

1.3.7 Reset pushbutton to reset all indicators and horn

1.4 The annunciator shall be housed in a (NEMA1 indoor, NEMA3R outdoor) steel, painted enclosure which is entirely front accessible, serviceable

1.5 The annunciator shall be installed by (flush wall mounting, flush panel mounting, projection wall mounting)

1.6 The annunciator shall include the following functions/indicators. Listed below are common indicators/functions, but ANY LEGEND AND FUNCTION MAY BE SPECIFIED.

**Color:** G=green, R=red, RF=red flashing, A=amber

**Function:** M=momentary, L=latch-in, H=horn

Legend	Color	Function
Ready	G	M
Low Fuel Level	R	L,H
High Fuel Level	R	L,H
Overflow	RF	L,H
Tank Rupture	RF	L,H
Fuel Line Leak	R	L,H
Pump Run	A	M
Pump Fail	R	L,H
Loss of Flow	R	L,H
Not Auto	RF	M
Low Fuel Temp	A	M
Valve Open	A	M
Valve Closed	A	M
Power Available	G	M
Power Failure	RF	M
Water in Fuel	R	L
Refill Reminder	RF	M

1.7 The annunciator shall be a Simplex AP2110/ AP2130 Annunciator Panel as manufactured by Simplex, Inc., Springfield, Illinois.