



# Aplex Product Line

Aplex control panels contains the latest in microprocessor technology to monitor up to 30 zones of protection for the Model 3030E and 100 zones for the Model 3100E. Time-division multiplexing is used to interrogate each protection point on a 3-conductor cable up to 2 km in length. Multiplexing makes the installation easier because no "home-run" loops are required. Additional zones may be added later by tapping in on the multiplex line.

## Standard Features

### Enclosure

The cabinet is made from 18-gauge sheet steel; left-hinged, front fixing screws, finished in a light grey finish.  
Dimensions: 16.5" w x 11.5" h x 3" d  
Weight: 9 lbs.

### Outputs

- 7 panel outputs (3 form "C" relay, 4 positive voltage)
- Up to 43 additional relay outputs by using Model 1101 CLEMES
- Panel has 19 pre-defined output functions

### Power Supply

- 13.6VDC, 1.5 amp regulated
- 13.6VDC float charger, capable of charging up to 20 amp-hour gel battery
- 13.6VDC, 1.25 amp, fused accessory output. Standby battery amp-hour capacity must be increased if accessory load is added
- Requires one 12-volt, 6.5 amp-hour battery for 24 hour standby without accessory load
- Requires one 16-volt, 37 VA transformer

### Communication

- Serial communication port allows use of DVACS<sup>®</sup> local logging printer, autodial modem
- In DVACS<sup>®</sup>/modem operation, all users' actions, zone alarms, analog loop values, etc. are received at the Central Monitoring Station. Non-automated Central Monitoring Stations may use ARM/DISARM alert for selective opening/closing or EARLY OPENING alert

## Aplex 3030

### Specifications

- 30-zone capacity
- 2-km, fully supervised, multiplex loop
- 300-event log with date and time of event including user action and user name
- 99 user codes plus names (Users can only select options assigned to them by the master user)
- 24 factory-defined zone types, e.g. exit, panic, twin, follower, fire-door, flow, gate, pressure, night, etc.
- Retard timer on flow-type zones
- Closing time warning with user choice closing times
- ULC listed for Central/Monitoring Station Burglary and/or Fire, suitable for financial-type burglar alarm systems

### Keyboard and Display

- 20-character, red LED, alpha-numeric display
- 19-key membrane keyboard (3 letters/characters per key allows full description of each zone to be programmed)
- All keyboard functions are menu driven
- Accepts unlimited number of Model 3220/3230/3240 full function, 20-character display, remote keypads



The Aplex Model circuitry

**Aplex control panels offer the latest in microprocessor technology**

## Aplex 3030E8

This multi-area system is based on the standard APLEX 30-zone panel. The system allows for the splitting up of a premises into a maximum of eight areas and permits individual arming and disarming of each area. In addition, a common area can also be protected, e.g., cafeteria, lobby, etc. When any one area is disarmed, the common area is disarmed; however, when all areas are armed, the common area is also armed.

All eight areas and the common area each have an instant zone type. In addition, Areas 1 to 4 have individual entry/exit zones and Areas 1 and 2 each have a follower type zone. This allows timed entry/exit for authorized users of Areas 1 to 4. The common area also has an entry/exit zone type that permits monitoring a lobby.

The 99 general users can be assigned to arm/disarm different areas. Selected users can also fully arm or fully disarm the complete system and be given further options such as reviewing the 300-event log, shunting zones, etc.

In operation, the area designations are factory programmed to read AREA 1, AREA 2, etc., or can be changed to read OFFICE, PLANT, STORES, etc., or any suitable six-character designation.

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## Aplex 3100E

### Specifications

- 100-zone capacity
- 2-km, fully supervised, multiplex loop
- 600-event log with date and time of event including user action and user name
- 250 user codes plus names (Users can only select options assigned to them by the master user)
- 24 factory-defined zone types, e.g. exit, panic, twin, follower, fire-door, flow, gate, pressure, night, etc.
- Retard timer on flow-type zones
- Closing time warning with user choice closing times
- Simple door access, user group split into 5 blocks, each block can operate one of five doors
- ULC listed for Central/Monitoring Station Burglary and/or Fire, suitable for financial-type burglar alarm systems

### Keyboard and Display

- 20-character, red LED, alpha-numeric display
- 19-key membrane keyboard (3 letters/characters per key allows full description of each zone to be programmed)
- All keyboard functions are menu driven
- Accepts unlimited number of Model 3220/3230 full function, 20-character display, remote keypads

## Aplex 3100E8

This multi-area system is based on the standard APLEX 100-zone panel. The system allows for the splitting up of a premises into a maximum of eight areas and permits individual arming and disarming of each area. In addition, a common area can also be protected, e.g., cafeteria, lobby, etc. When any one area is disarmed, the common area is disarmed; however, when all areas are armed, the common area is also armed.

All eight areas and the common area each have an instant zone type. In addition, Areas 1 to 4 have individual entry/exit zones and Areas 1 and 2 each have a follower type zone. This allows timed entry/exit for authorized users of Areas 1 to 4. The common area also has an entry/exit zone type that permits monitoring a lobby.

The 250 general users can be assigned to arm/disarm different areas. Selected users can also fully arm or fully disarm the complete system and be given further options such as reviewing the 600-event log, shunting zones, etc.

In operation, the area designations are factory programmed to read AREA 1, AREA 2, etc., or can be changed to read OFFICE, PLANT, STORES, etc., or any suitable six-character designation.

3030E Series	Code	3100E Series	Code
English single-area	3100E	English single-area	3100E
English 8-area	3100E8	English 8-area	3100E8
French single-area	3100EFR	French single-area	3100EFR
French 8-area	3100E8FR	French 8-area	3100E8FR

## Aplex/Midiplex Accessories



**MODEL 1020 DUAL LINE ENCODER MODULE (DLEM)**

- Used to connect door contacts, PIRs, microwave detectors, etc., into the system
- 2 zones per DLEM, each zone wired as a 2-wire, end-of-line resistor loop
- 4 conditions per zone - normal, alarm, short and disconnect
- Position independent - addressed by BCD switch
- ULC listed
- Dimensions 5 1/2" W x 3"H x 1"D
- Operating temperature -10C to +45C



**MODEL 1024 DUAL LINE ENCODER MODULE (QLEM)**

- Used to connect door contacts, PIRs, microwave detectors, etc., into the system
- 4 zones per QLEM, each zone wired as a 2-wire, end-of-line resistor loop
- 4 conditions per zone - normal, alarm, short and disconnect
- Position independent - addressed by BCD switch
- ULC listed
- Dimensions 5 1/2" W x 3"H x 1"D
- Operating temperature -10C to +45C



**MODEL 1050 SPRINKLER LEM (SLEM)**

- Used to connect a sprinkler riser or local fire alarm panel into the system
- Consists of hinged, sheet steel enclosure containing one QLEM that allows for monitoring 4 conditions, e.g., flow, pressure, gate, etc.
- Permits connection of riser switches, etc., using flexible or rigid conduit
- Provision for later addition of a second QLEM
- ULC listed
- Dimensions 7 1/2"W x 9"H x 2"D
- Operating temperature -10C to +45C
- Weight 2 lbs



**MODEL 1101 COMMAND LINE ENCODER MODULE (CLEM)**

- Provides 2-amp, SPDT, dry contact anywhere on the alarm loop multiplex line
- Position independent - addressed by BCD switch
- Multiple CLEMs can have same address
- ULC listed
- Dimensions 5 1/2"W x 3"H x 1"D
- Operating temperature -10C to +45C



## Remote Key Pad 3240

### General Information

The Model 3240 is a low power keypad designed to provide remote operation of an APLEX, DIRECTPLEX or MIDIPLEX control panel. A hinged door covers the push buttons and display when the keypad is not in use. A user instruction card is mounted on the inside of the hinged door for quick reference to common functions. The keypad is easy to install and operates identically to the keyboard on the main panel. The keypad may be connected to the multiplex line at any point on the network and requires 12 volt DC power, supplied either by the panel or by an auxiliary power supply.

The keypad has a 20-character, backlit, LCD display which shows the date and time, all open zones with a description, i.e., 6 FRONT DOOR, any alarm messages, log information with date and time, zone description, alarm status, etc.

In addition to all the standard control panel features, the Model 3240 also contains a green power LED and a red system armed/alarm memory LED. When the red LED is steady, the system is armed. If the red LED is flashing, an alarm has occurred.

Each time a key is pressed on the keypad, a beep is heard. In a multi-keypad installation, keypads that are not being used enter into a private mode to prevent a conflict between keypads. Buzzer can be disabled by means of a dip switch.

The keypad has a tamper switch that will send a signal to the control panel if the housing is opened

### Specifications

- 20-character, backlit LCD display
- 19-key, push button style keypad
- Operating power requirement - 12 VDC, 25mA (standby), 150mA with display on
- White ABS plastic
- ULC listed
- Dimensions 7"W x 4 1/2" H x 1 1/2"D



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