# **PRODUCT DESCRIPTION**

The DL2 is a dialer module, which contains a Digital Alarm Communicator Transmitter (DACT). The dialer sends alarm, supervisory, and trouble information to a compatible Digital Alarm Communicator Receiver (DACR) through one or two dial-up telephone lines (two per NFPA 72). The dialer supports 20 PPS 4/2 format and Dual Tone Multi-Frequency (DTMF) or Pulse mode dialing. Every 24 hours, the dialer performs an automatic test call to verify communications between the fire alarm panel and the Central Monitoring Station (CMS).

# INSTALLATION

## Warning!

Disconnect external ac power and battery power to cabinets before installing or removing components. Failure to do so may result in serious injury or loss of life.

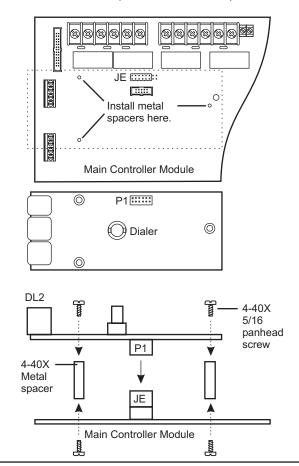
### Caution!

Carefully match mounting holes up with spacers to ensure proper connector mating.

Observe static-sensitive material handling practices.

### Mounting the DL2

- Install three metal spacers (P/N 362329) with the screws provided 1 in the three locations indicated below.
- 2 Mount the DL2 on the three metal spacers.
- 3 Mate connector P1 on the DL2 with connector JE on the Main Controller Module.
- 4 Secure the DL2 to the spacers with the screws provided.



Humidity range

# SPECIFICATIONS

Input power Supervisory Active	10 mA 20 mA
Mounting	Mounts on the Main Controller Module
Phone line	One/two loop start lines on public switched telephone network, pulse or DTMF dialing. Party, ground start, and PBX start lines are not acceptable. NFPA 72 requires two phone lines.
Wall connector	Standard RJ31X or RJ38X phone jack
Line supervision	Trouble when line voltage less than 10 V and line current less than 5 mA.
Communications protocol	SIA pulse format 20 PPS 4/2 double round, 1400 Hz handshake, 1900 Hz carrier
CMS telephone numbers	Two 24-digit numbers
FCC registration number	4Z2USA-22549-AL-E
Dialing retries	five to ten
Clock accuracy	Within one hour/year
Compliance	Communications Canada, CS-03; FCC/CFR 47 parts 15 and 68; NFPA 72; UL 864; ULC S527-M87
Programming phone	Any tone dial phone with an RJ11 plug
Environmental conditions Temperature range	32 to 120 °F (0 to 49 °C)

32 to 120 °F (0 to 49 °C) 0 to 93%, non-condensing

## Dialer codes

Event	Code
Fire alarm report codes	01-32
Fire alarm restore codes	41-72
Normal 24 hr check-in	90
Abnormal 24 hr check-in	91
Supervisory alarm	92
Trouble	93
Trouble / supervisory restore	94
AC power fail	96
Battery trouble	97
Telephone line trouble	98
Dialer disabled	99

# **PRODUCT DIAGRAM** $\bigcirc$ $\bigcirc$ Π $\sum$ $\bigcirc$ INSTALLATION SHEET: **DL2 Dialer Module Digital Alarm Communicator Transmitter**

INSTALLATION SHEET P/N: 387132	FILE NAME: 387132.CDR
REVISION LEVEL: 4.0	APPROVED BY: M. Slack
DATE: 24AUG00	CREATED BY: B. Graham

EDWARDS SYSTEMS TECHNOLOGY, INC. SARASOTA, FL: 941-739-4300 FAX 941-753-1806

CHESHIRE, CT: 203-699-3000 FAX 203-699-3075

OWEN SOUND, CANADA: 519-376-2430 FAX 519-376-7258 INTERNATIONAL, CANADA: 905-270-1711 FAX 905-270-9553

# WIRING

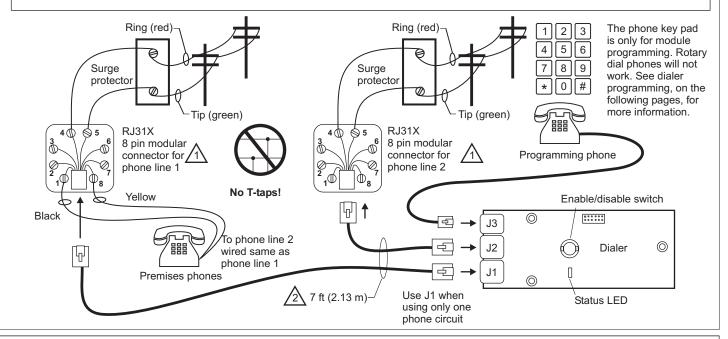
### Notes

Connect J1 and J2 to RJ31X or RJ38X telephone jacks installed by an authorized telephone company representative (CA31A or CA38A in Canada).

Install the RJ31X (RJ38X) jacks within 5 ft (1.5 m) of the control panel and allow two extra feet of cable for a total of 7 ft (2.13 m).

The dialer installation kit includes a protective bushing (P/N 362316) for enclosure knockouts.

Before programming can proceed, the dialer will notify the central monitoring station (CMS) for any previously entered numbers.



## **IMPORTANT INFORMATION**

#### **FCC** information

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- 1 The dialer complies with Part 68 of the FCC rules. The Dialer's FCC registration number and Ringer Equivalence Number (REN) are on the back of the dialer. This information must be provided to the telephone company if requested.
- 2 An FCC compliant telephone cord and modular plug cord is supplied with the dialer. The dialer is designed to be connected to the telephone network using the supplied cord and an RJ31X or RJ38X jack, which must also comply with FCC Part 68 rules.
- 3 The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed five (5). To be certain of the number of devices that may be connected to a line as determined by the total RENs, contact the local telephone company.
- 4 If the dialer causes harm to the telephone network, the telephone company will notify you an advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify you as soon as possible. You will also be advised of your right to file a complaint with the FCC, if you believe it is necessary.
- 5 The telephone company may make changes in it's facilities, equipment, operations, or procedures that could affect the operation of the dialer. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
- 6 If trouble is experienced with the dialer, for repair or warranty information, contact GS Building Systems Corp. 6411 Parkland Drive, Sarasota, Florida USA 34243. If the dialer is causing harm to the telephone network, the telephone company may request you disconnect the dialer until the problem is resolved.
- 7 No repairs may be performed on the dialer by the user.
- 8 The dialer can not be used on public coin phones or party line service provided by the telephone company.

#### **Canada DOC information**

Notice: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

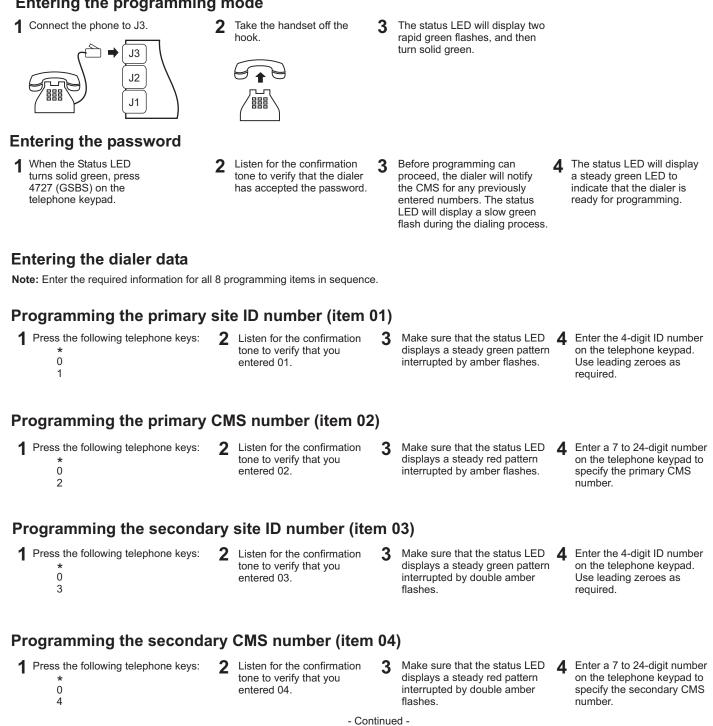
Notice: The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device to prevent overloading. The temination on a loop may consist of any combination of devices subject only to the requirements that the sum of the Load Numbers of all devices does not exceed 100.

## DIALER PROGRAMMING

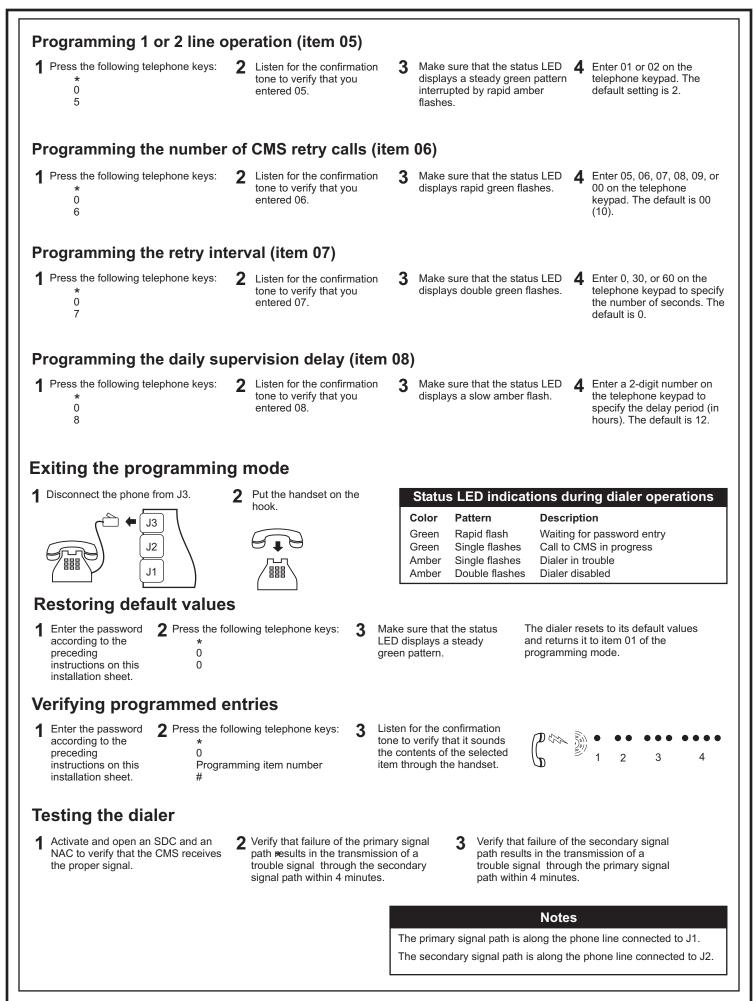
#### Notes

- 1 A confirmation tone indicates the correct entry of a program item.
- 2 Phone lines must be loop start on a public-switched network. PBX, party lines, and ground start lines are not acceptable.
- 3 The dialer does not place calls, monitor the panel, or monitor the phone lines during the programming process.
- 4 After initial programming, the dialer notifies the central monitoring station that it is disabled before programming can proceed.
- 5 Two phone lines are required to comply with NFPA 72.
- 6 The dialer will automatically switch to pulse dialing after three consecutive failures using tone mode. It will switch back to tone dialing after failing to connect using pulse mode, upon re-programming, or upon enabling disconnect switch.

## Entering the programming mode



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