Installation Instructions
for the DS7457
Single Zone Multiplex Input Module

1.0 SPECIFICATIONS

The DS7457 is a Single Zone Multiplex Input Module which is designed to operate with compatible two-wire multiplex systems such as Detection Systems' DS7400 Series Control/Communicators. It is intended to monitor conventional Normally Open or Normally Closed dry contacts and report their status as multiplex addresses to the control system. The DS7457 can monitor one loop and provides a separate tamper loop. It occupies one multiplex zone address on the system.

Control Panel Requirements: A DS7400, DS7400X, or DS7400Xi control panel with a DS7430 multiplex expansion module. The DS7400 and DS7400X require ROM version 1.07 or greater.

Current Draw: 0.35 mA (Standby and Alarm)

2.0 MULTIPLEX PROGRAMMING

Step 1   Program the zone assignment.

NOTE: Before programming the multiplex device, you must first complete the zone programming for each device. Refer to the zone programming section in the control panel manual.

Zone Assignment Programming: 0022-0149   DS7400/DS7400X
                                0018-0145   DS7400Xi

Step 2   Disconnect the Multiplex Loop.

Disconnect all multiplex devices from the multiplex interface board (DS7430).

Step 3   Enter Programmer's Mode.

Enter the programmer's mode by entering the programmer's code followed by # 0 at a control station (keypad).

Step 4   Programming BusLoc® feature.

If you wish to use the BusLoc® feature, you must program a 5 digit code (e.g. 5 4 3 2 1) at programming address 9999. If you are not using the BusLoc® feature go to Step 5.

Step 5   Enter Multiplex Programming Mode.

Begin the multiplex programming mode by entering address 9995 followed by the # key. The control will check the multiplex bus to confirm there is nothing connected to it. While it is checking the bus, the keypad will display the following:

```
        Checking
     Multiplex Bus
```

Step 6   Program the Sensor.

The control will prompt you to program the first device in the database. The keypad will display:

Type of Device ———— Sens/Contact 009 ———— Zone Number
                     Press # to Prog

If you wish to program a different zone number, press the * key, and enter the 3-digit number of the zone you wish to program.

Connect the device to the DS7430 Multiplex bus and press the # key. The control will ask you which type of device you are programming. **Press 4 for sensor.**

```
   Sensor?  Press 4
   Contact? Press 6
```

If the device is successfully programmed, the control will prompt you to connect another device to the multiplex bus. If the device is not programmed successfully, the control will sound a 3-beep error tone.

```
   Sens/Contact 010
    Press # to Prog
```

Disconnect the device you just programmed, connect the next device (if any) to the bus, and press the # key.

Repeat the above sequence with any remaining multiplex devices. When all devices have been programmed, the control will display the following:

```
      Mux Zone
    Enter Address
```

Step 7   Exit Multiplex Programming Mode.

If you wish to exit the multiplex programming mode, press the * key for two seconds. This will take you to the programmer's mode.

Step 8   Exit Programmer's Mode.

CAUTION: Any devices that are programmed as 24 hour zones will cause an alarm when you exit programmer's mode. Reports for these zones will be sent if they are programmed.

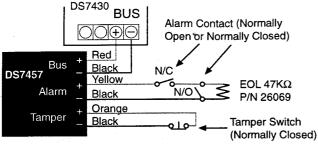If you wish to exit the programmer's mode, press the * key for two seconds.

3.0 INSTALLATION

These instructions assume that the Control Panel is installed and is working properly.

NOTE: The DS7457 must be programmed before installation. See Section 2.0 Multiplex Programming for zone programming information.

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Disconnect the power to the multiplex loop before running wires and connecting the DS7457. Connect the DS7457 as shown below.

NOTE: If not using the tamper circuit, twist or short orange and black tamper wires together.

4.0 TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	POSSIBLE SOLUTION
Zones show "Not Ready," Zone Trouble displays for this Zone.	a. Multiplex expansion module not installed properly.	a. Make sure that Multiplex expansion module is seated properly on the pins on the control panel circuit board.
	b. Multiplex wiring missing or not installed properly.	b. Check wiring.
	c. BusLoc code (if used) is set incorrectly or has not been programmed into module.	c. If using BusLoc, be sure to program the BusLoc code from address 9999 before programming any multiplex devices..
	d. Zone Programming incorrect.	d. Program data digit 1 as 0 thru 3.
	e. Multiplex module not programmed.	e. Program the module.
	f. Tamper circuit is open.	f. Short tamper wires together or connect to tamper switch.
Module will not Program.	a, b, or d above.	a, b, or d above.
Zones show "Not Ready," No Zone Trouble display for this Zone.	a. EOL resistor missing.	a. Install EOL resistor.
	b. Wiring is not installed properly.	b. Check wiring.