

# Installation Instructions for the DS7436 Multiplex Expansion Module

## 1.0 General Information

The DS7436 is a two-loop Multiplex Expansion Module for use with the DS7400(Xi) Series Control/Communicator. It connects directly to the DS7400(Xi) and provides a two-wire multiplex bus for the connection of up to 120 remote points. Each bus is isolated so that failure in one bus will not cause failure in the other.

- Current Draw: 130 mA Standby or Alarm.
- Outputs: DC Bus A = 200 mA  
Mux Bus A = 75 mA  
DC Bus B = 200 mA  
Mux Bus B = 75 mA

## 2.0 Installation

**Failure to follow the mounting instructions in this manual may result in damage to the DS7400(Xi) Control Panel.**



**The DS7436 and DS7400(Xi) contain static-sensitive components and must be handled with care. Follow anti-static procedures when handling the modules.**

- Install the DS7436 board prior to installing the DS7400(Xi) board in the control enclosure. If the DS7400(Xi) board is already installed in the control enclosure, remove the DS7400(Xi) board at this time.
- Place the DS7400(Xi) board on a flat surface with the component side of the board facing up.
- Install the four plastic standoffs in the holes provided in the DS7400(Xi) board. Avoid bending or flexing the DS7400(Xi) board when inserting the standoffs. Be sure the standoff tabs are aligned so that they do not touch any components on the module. Be sure that the stand-offs are firmly pressed into the board so that the "ears" can expand outward. See drawings.
- Install the DS7436 board onto the standoffs, noting that the connector pins from the DS7400(Xi) are properly aligned to install into the connector on the DS7436. Avoid bending or flexing the boards while pressing them onto the standoffs.
- The DS7400(Xi) control board may be installed in the control panel enclosure at this time.

## 3.0 Wiring

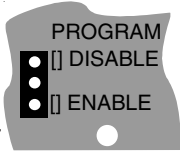
Connect the multiplex loop to the DS7436 as shown. Up to 2000 feet (610 m) of #22 AWG (0.8 mm) or 5000 feet (1525 m) of #18 AWG (1.0 mm) wire may be used. Do NOT use shielded cable.

The Bus Power output is for connection of separately-powered multiplex devices such as the DS7432 8-Input Remote Module. If using separate powered detectors, they should be powered from the auxiliary power terminals of the DS7400(Xi). The DS7432 may also be powered from the auxiliary terminals.

**NOTE:** Loops A and B may be used for fire and intrusion zones. Loop A is recommended for burglary. Loop B is recommended for fire. Only Loop A may be used to program the multiplex addresses. Disconnect Loop B units prior to programming units on Loop A.

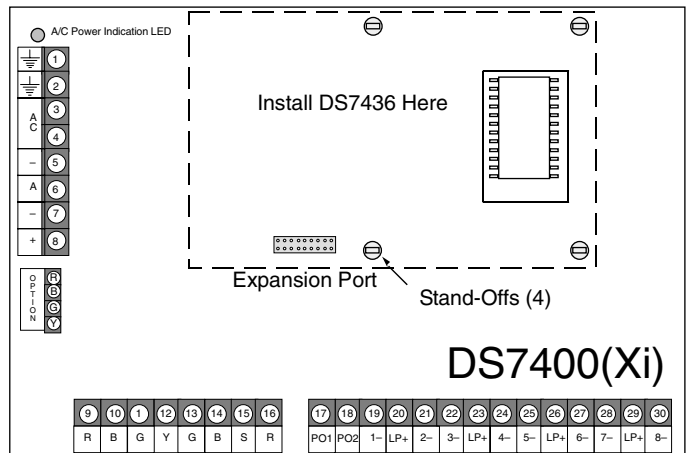
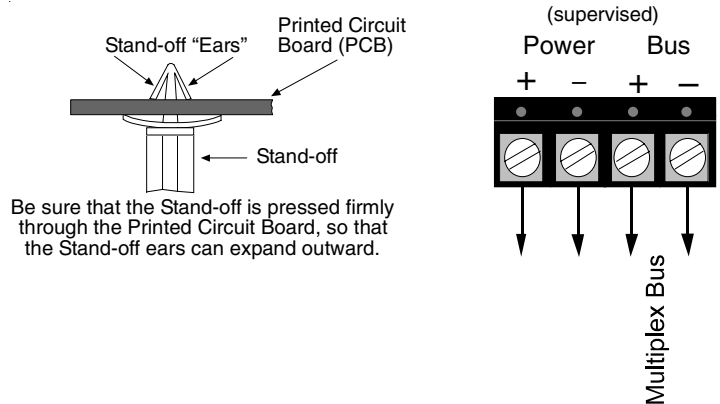
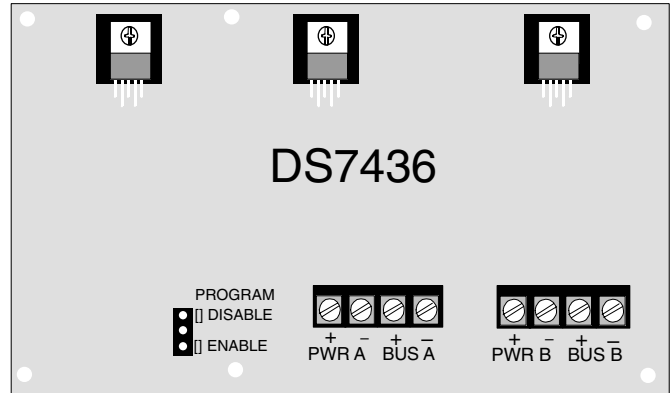
## 4.0 Program Jumper

The DS7436 is shipped with the program jumper in the Disable position. To enable programming, move the jumper so that it shorts the middle and bottom pins.



After programming the multiplex points, the jumper must be moved back to the **Disable** position.

**NOTE:** The DS7436 **MUST** have a jumper installed at all times.



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