

Model Railroad Control Systems

Train Order Board Control System

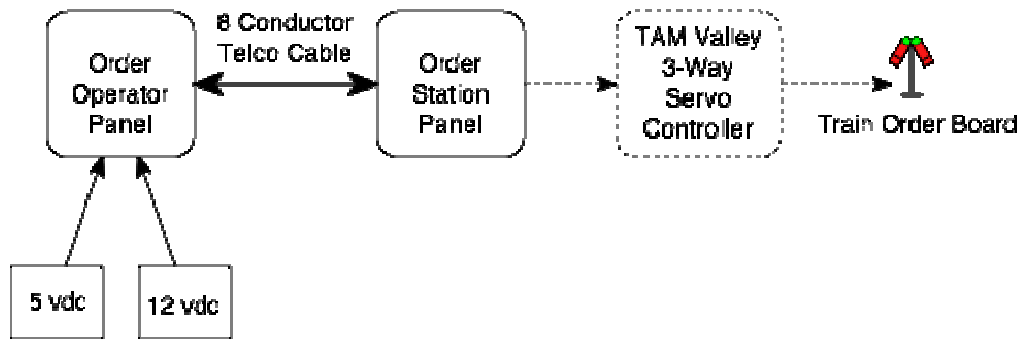


System Demonstrator

- Remote control of Train Order Board signals on a model railroad layout
- Provides remote order board control for TT&TO
- Train crews acknowledge receipt of orders to operator
- Simple design, no host computer or software needed
- Interfaces directly to the Tam Valley Depot 3-Way Servo controller for layout mounted train order board signals

The system consists of an Order Operator panel and a corresponding Order Station panel. The panels contain green, red, and white LEDs which represent the status of the order board. There is descriptive text associated with the LEDs and switches.

One operator panel controls one station panel. The panels are connected using 8 conductor, flat telephone cable with RJ45 connectors. The station panel circuit board provides connections to the train order board signal equipment located on the layout. The physical train order board signal equipment is optional and is not required to run the system. The system is powered by 5 and 12 volt DC supplies.



Train Order Board Operation – One Scenario

- 1) Order operator sets boards set to No Orders, Green aspect displayed on panels.
- 2) Dispatcher issues an order for train X1234 South to operator.
- 3) Order operator sets Southward order board to Stop, Red aspect displayed on operator panel. Red aspect displayed at station fascia panel, station order board blade set to Stop, Acknowledge (white LED) illuminated.
- 4) Crew receives orders. When ready to follow orders, the crew presses the acknowledge button on fascia panel.
- 5) On Order operator panel, Orders Received LED starts flashing.
- 6) Order operator sets board to No Orders, Green aspect displayed on panels. White LEDs on both panels are turned off.

Frequently Asked Questions

- Are train order board signals required?
No, the system is designed to operate with just the LED indicators.
- Why are there two power supplies?
The main voltage is 5 vdc. 12 vdc is required for the servos. If you do not use optional semaphores, only a single 5 volt supply is needed.
- Does this system work with DC layouts?
Yes, there is no system connection to the track.
- Will this system drive stall motors for TOB blade control?
No, the optional TAM Valley board works with servos.
- Does this version support Form 19 and Form 31 operations?
No, only two order positions are supported, No Orders and Stop (for orders - Form 31) .

- What if my dispatcher is remote from the layout room and I can't run a CAT5 to every station from the dispatcher's office?

MRCS makes optional "code line" boards in "Dispatcher" and "Field" configurations so that the station panels can be driven locally in the layout room by the "Field" board which is controlled by a distant dispatcher.

- What if my system doesn't need all of the functions MRCS offers or needs different ones?

The TOB system is very flexible and we can quote you on a custom design

For more information, please contact Model Railroad Control Systems.

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