

L2000 Programmable Logic Controller

Mobile Simulation Trainer

The L2000 Trainer simulates level monitoring with automatic pump control, alarm detection, and generation, for demonstration learning aid of your system. Simulated real-time monitoring is provided with two built-in, adjustable control potentiometers and indication pilot lights. The L2000 Trainer is completely impervious to power failures and will continue controlling the process upon restoration of power. Control programming is the same as your system. All of the advanced pump operation features are built-in and available in the system setup.

Features

- Panel is mounted in easy to transport carrying ease.
- Learn and demonstrate multiple telemetry protocols and communication strategies without affecting your system.
- Integrated Operator Interface with complete menu system optimized for system operation and setup.
- Pump Up and/or Down control modules-select from multiple preset pumping configurations.
- Back-up pump calls with automatic insertion of next available pump should the lead or lag pump become unavailable.
- Pump Interlocks to inhibit auto pump start calls on pump fails, A/C Phase Fail, or the Sump/ Tank Level Xducer Fail.
- Pump run status, over-temp and HOA is continuously monitored and reported.
- Built-in Totalizers and Accumulation of data are stored for viewing and reporting on pump starts and pump runtime.
- All setpoints are labeled and easily configured from the operator interface panel.
- Scrolling alphanumeric Brite-Lite display with 60 annunciators.
- LED nameplates for inputs, outputs and alarms.
- Simulated built-in alarms for Low/High Level, Pump Fail, Xducer Fail, A/C Phase Fail and PLC power fail.
- Alarm recovery with LED indicators for acknowledgment and/or clearing.
- TESCO FLOWSOFT® software calculates and reports on Inflow Rate, Pump Flow, and Station Flow.
- WinBench® support for learning setup and configurations for quiescent/ polling messages.



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Mobile Simulation Trainer (continued)

Training Applications:

- Waste Water Lift Stations
- Booster Pump Stations
- Storm Water Lift Stations
- Storage Tank Systems
- Hydro pneumatic Tank Stations
- Open Channel Irrigation Pump Control
- Pump Control



Simulated Pump Performance is continuously monitored and reported by the L2000 Trainer.

Simulated Pump Calls for a maximum of two (2) pumps are issued by the L2000 Trainer when the simulated H-O-A switch is in the "auto" position. Pump Call Sequence is determined by the selected "control mode" entered via the setup function on the L2000 Trainer keypad.

2 Pump Alternation ->Lead / Lag pumps (#1 & #2) alternate after pump-cycle is completed.

2 Pump w/ Standby->Lead / Lag pumps (#1 & #2) alternate after pump-cycle is completed. Standby pump (#3) called to replace failed pump. 2 Pump w/ Lo-Flow->Lag1 / Lag2 pumps (#2 & #3) alternate after pump-cycle is completed. Low-Flow pump (#1) called on/off per lead setpoints and called off when Lag1 or Lag2 are on. 3 Pump Alternation ->Lead / Lag1 / Lag2 pumps alternate after pump-cycle is completed.

Manual Sequence ->Pumps called on/ off per sequence selected via menu option.

Back-up Pump Calls are issued to the next available pump, except in the Lo-Flow mode, should the Lead or Lag pump become "un-available". A pump is unavailable when its' respective "Failure" alarm is active or H-O-A switch is not in the "auto" position. Simulated Purge Cycles for reactive air systems are initiated via the manual purge "macro button" and automatically at operator configured selectable intervals.

Totalization and/or accumulation of process variables are stored in the L2000 Trainer and may be viewed by examining specific registers.

Simulated Alarms are identified by LED indicators on the L2000 Trainer faceplate which require operator intervention for acknowledgment and/or clearing.

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