DATASHEET

Truck Terminal Management System
TLX-CM

TermLinx is an innovative, Encompass Approved, Truck Terminal Management System (TMS) designed for the Microsoft™ Windows™ XP platform. It meets growing industry demand for seamless database connectivity to corporate host management systems. At the same time, it has been designed for cost-effective stand-alone operation. One of its outstanding features is its use of non-proprietary, globally-available hardware and software platforms, which make it relatively easy to support.

For its system functions, TermLinx integrates tightly through a direct data link with the Rockwell Automation® Programmable Automation Controllers (PACs) or Programmable Logic Controllers (PLCs). This tight integration reduces the need for additional truck terminal control hardware because the same PLC can be used for overall facility process control, as well as truck terminal control. Flow measurement and control can be accomplished using flow meters and batch controller/set-stop units, such as FMC Technologies Smith Meter® Accuload® III systems, or using ProSoft Technology® AFC Flow Computers and existing PAC/PLC controllers. The TermLinx system will accurately log batch transaction details from either type of system.

Features	Benefits
Extensive operating database options	♦ Validation and Lockout by: Driver, Contract #, Time and Date Window, Product Volume, or expirations of Driver License, Carrier Insurance, TDG Certification, or Tank Inspection ♦ Remote on-line maintenance of complete database from corporate headquarters ♦ Automatic purging of the transaction database based on a configurable time window ♦ Enterprise-ready Oracle® database includes interface to Entero® systems ♦ Easy integration with other corporate enterprise ERP systems
Scalable, field configurable and expandable for small to large installations	♦ Fewer hardware components, reduces failures, lowers initial cost and maintenance costs ♦ High level software "tools" for system installation and configuration ♦ User-friendly Trucker's Station (driver's user interface) designed for touch screen use
Host/Portable TermLinx Client Data Terminal software	♦ Database editing and maintenance ♦ Report generation ♦ Database backup in "CSV" format for importing into other applications
System configuration utility	♦ Can be configured to work with USA or Metric measurement systems ♦ Loading/offloading island configuration; customer can set overload tolerances ♦ Product blend control and configuration ♦ PLC Data File Mapping and hard copy documentation ♦ Automatic PLC Data File tag generation

Configuration

ProSoft Technology offers complete turnkey setup by ProSoft Technology system integrators. Or, install TermLinx yourself using our sample configuration files, sample database, and sample reports.

The TermLinx system includes:

- Trucker's Station (TLX-CM). Touch screen interface with simple prompts for login, transactions, loading/unloading, and BOL printing

- TermLinx Configuration Manager (TLX-TCM). Manages the configuration of single or multiple TermLinx sites

- TermLinx Database Manager (TLX-DBM). Administers single or multiple TermLinx site databases

General Specifications

TermLinx is a software suite intended for installation on an industrial computer as a dedicated application.

- **Operating system:** Microsoft™ Windows™ XP
- **Controller:** Rockwell Automation® PLC Industrial-grade non-proprietary platform with global presence
- **TermLinx, Database Manager, Configuration Manager:** Software runs on an industrial-grade touch screen Pentium™ PC
- **Open System Architecture:** ODBC & ACTIVE-X Object modules integrate into HMI Containers, like Rockwell Software RSView®, Wonderware™, and others
- **Well established client/server type relational database engine:** ORACLE® XE10g with ODBC connectivity
- **PLC Data Access:** Dynamic, synchronous access to data files in the PLC using Rockwell Software RSLinx®
- **ERP Integration:** Easily integrates into your ERP system; Includes interface to Entero®

Functional Specifications

Networking

- Ethernet, TCP/IP and LAN/WAN connectivity
- Corporate connection via ODBC to multiple TermLinx locations
- Standalone (local administration) or networked (central administration)
- Local administration can continue even when network communication is lost. Seamlessly returns to central administration when network communication is restored

Process Control

- Tightly integrated with terminal automation PLC system
- Communication interfaces for Smith Meter® Accuload® III set-stop batch controller
- Option for using powerful internal functions to replace external set-stop units for product volume measurement and batch control using ProSoft Technology AFC in-chassis flow computer with existing facility PLC system

Trucker's Station

- Can operate at unattended site; can lock out operators with expired insurance, TDG or tank certificates
- Trucker's Station can collect and validate information associated with an accountable transaction
- Trucker's Station can request the Batch Controller to authorize a transaction (batch), and control the batch (stop, restart, terminate)

Database

- Flexible and expandable database tables to accommodate wide range operating data file structures
- Current Transaction data (audit trail) for up to 64 bays per site can be written to PLC data file for HMI host retrieval using RSLinx
- Corporate management can update TermLinx with new contract data

Audit Trail

- Control access to the site for people who authorize transactions
- Continuously captures ongoing measurement of each product stream, for status display and later recording
- Periodically records the total flow occurring since the previous transaction was logged, triggered by a "post" signal from a PLC data file. Transactions can be issued by TermLinx or external process
- Posted transactions include accounting information (for billing the customer or paying the supplier) associated with the transaction upon commencement, authorization, and product flow. Transactions can also report unauthorized flow
- Prints per-transaction formal documents such as Bill of Lading (BOL) and Bill of Unlading (BOU) in a user-specifiable layout (via Crystal Reports)