FMC Technologies

Smith Meter® microLoad.net™

**We put you first.
And keep you ahead.**

SINGLE PRODUCT TRANSFERS COULDN'T BE SIMPLER

With over 30 years of experience building the world's best multi-product electronic presets, FMC Technologies offers the same high-quality measurement and control for single product transfers in a simple, compact package.

The Smith Meter microLoad.net is designed to monitor and control transfers of a single product in a broad range of loading, unloading and LACT applications. It can operate as a standalone controller or as part of a larger SCADA system connected through communications. Through the use of an extensive set of user-configurable settings, this one device can be tailored to fit any custody transfer application.

The microLoad.net features a stand-alone database which interfaces with the Smith Meter Card Reader for secure driver access.

Refined Product Applications

The Smith Meter microLoad.net is a simple and compact solution for custody transfers of alcohol, gasoline, diesel, antifreeze, lube oils, fuel oils, solvents, fertilizers, LPGs, LNGs and chemicals. The system is ideal for bulk plants, aircraft loading, shipping docks, processing installations and tank farms where a single main product is loaded.

Smith Meter® microLoad.net™

The Smith Meter microLoad.net is a preset batch controller that is easy to use and configurable to your application.

EFFICIENT SYSTEM MONITORING AND EASY PROCESS MANAGEMENT

» Continuously monitors system-critical functions

» Automatically corrects volumes per API MPMS Chapter 11.1-2004, programmable for numerous other API tables
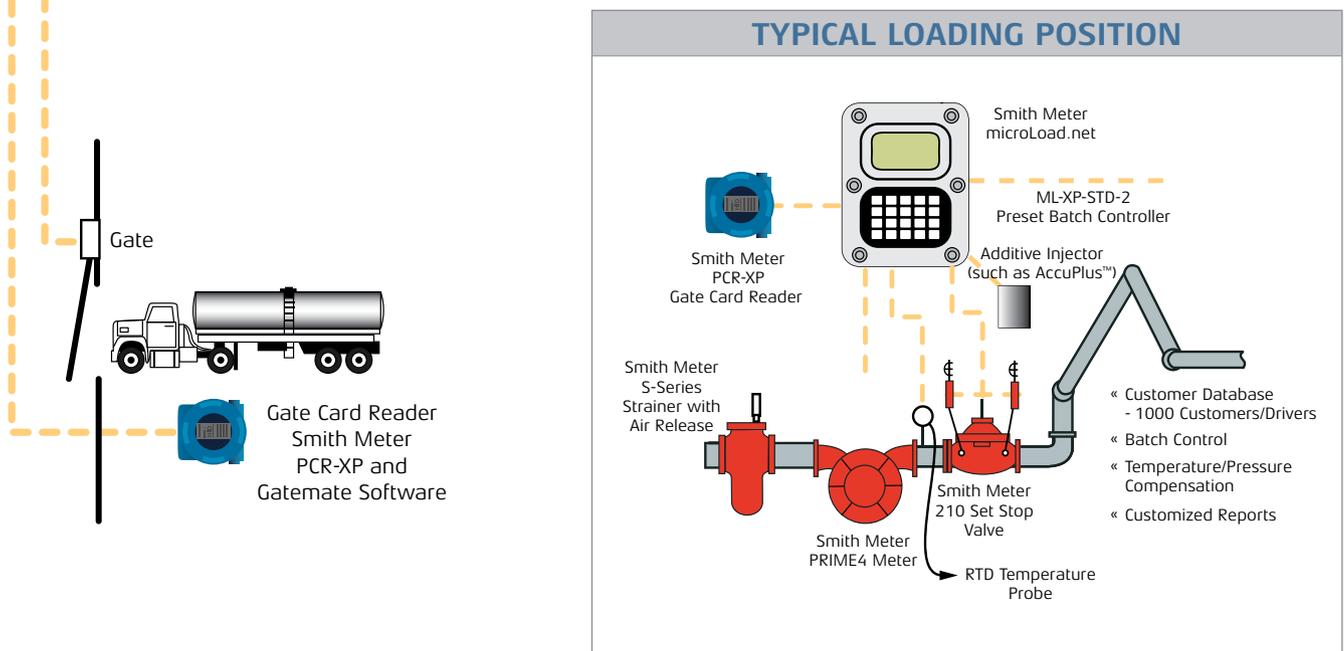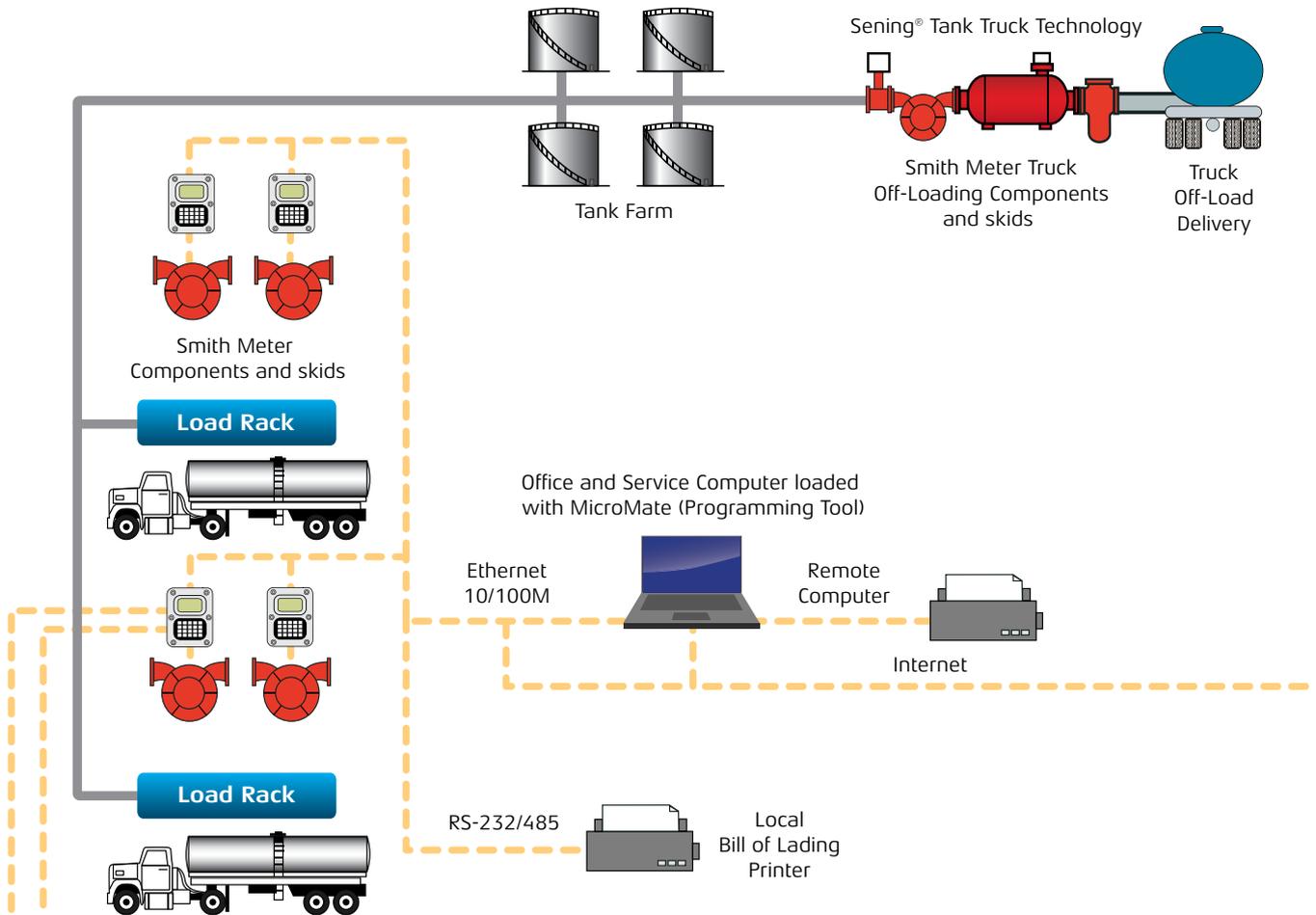
» Automated proving calculations

FLEXIBLE AND CONFIGURABLE PROGRAMMING AND REPORTING

» Ethernet network compatible printing, configuration, Modbus

» Multi-drop serial ports for maximum system expansion

» Smith Meter or Modbus protocols for host communications

» Boolean and algebraic programmable software for easy customization

» Customizable report formats to fit the needs of the customer

» Options for multiple languages, customized messages and text communication

» Customizable formats for inputs and outputs

» Interfaces with Proline® Promass Coriolis meters

» Logs events and produces an audit trail

BUILT FOR SAFETY AND RELIABILITY

» Multi-level security access

» Explosion-proof housing

» OIML-compliant display offers prolonged visibility during unplanned power outages

TYPICAL BULK PLANT AND AVIATION FUELS MANAGEMENT SYSTEM

Sening® Tank Truck Technology

Tank Farm

Smith Meter Truck
Off-Loading Components
and skids

Truck
Off-Load
Delivery

Smith Meter
Components and skids

Load Rack

Office and Service Computer loaded
with MicroMate (Programming Tool)

Ethernet
10/100M

Remote
Computer

Internet

Load Rack

RS-232/485

Local
Bill of Lading
Printer

Gate

Gate Card Reader
Smith Meter
PCR-XP and
Gatemate Software

TYPICAL LOADING POSITION

Smith Meter
microLoad.net

ML-XP-STD-2
Preset Batch Controller

Smith Meter
PCR-XP
Gate Card Reader

Additive Injector
(such as AccuPlus™)

Smith Meter
S-Series
Strainer with
Air Release

Smith Meter
210 Set Stop
Valve

Smith Meter
PRIME4 Meter

RTD Temperature
Probe

« Customer Database
  - 1000 Customers/Drivers

« Batch Control

« Temperature/Pressure
  Compensation

« Customized Reports

FMC Technologies

CRUDE OIL APPLICATIONS

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And keep you ahead.**
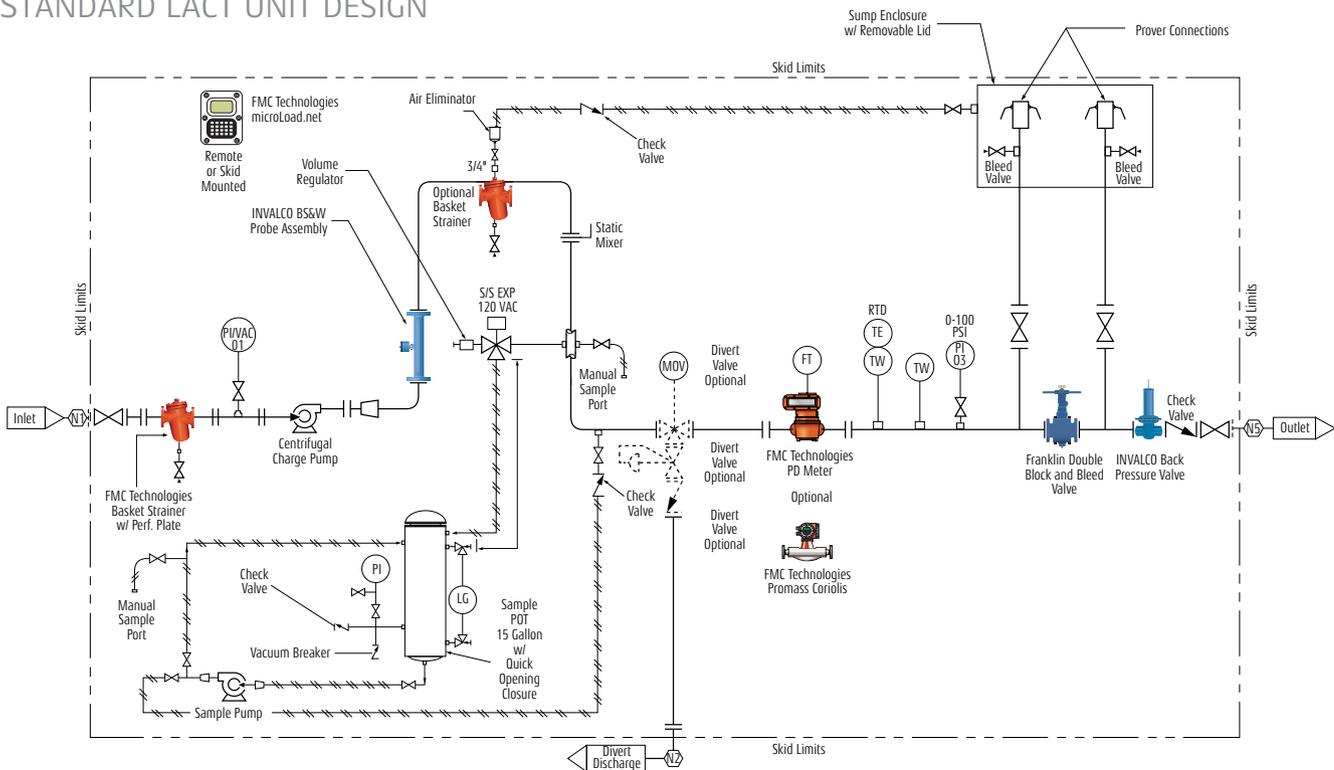
The microLoad.net is the ideal solution for measurement and control of LACT, unloading and loading of crude oil. As a standalone system or remotely controlled, the microLoad.net provides all the features needed for accurate measurement as well as safe and secure control, including:

» BS&W monitoring with divert valve control
» Calculation of gross/net volumes, average temperature, pressure, density and BS&W according to API standards
» Sampler control (up to four sample pots)
» Activation by tank switch, remote communications or front panel keypad
» User authorization database based on ID/PIN entry or card swipe
» Automatic logging of transaction records, operating events and parameter changes
» Customizable BOL ticket automatically printed
» Day, week and month running totals

STANDARD LACT UNIT DESIGN

Sump Enclosure w/ Removable Lid
Prover Connections
Skid Limits

FMC Technologies microLoad.net
Remote or Skid Mounted

Air Eliminator
Check Valve
3/4"
Volume Regulator
INVALCO BS&W Probe Assembly
Optional Basket Strainer
Static Mixer
Bleed Valve
Bleed Valve

Skid Limits

PI/VAC 01
S/S EXP 120 VAC
Manual Sample Port
MOV
Divert Valve Optional
FT
RTD TE
TW
TW
0-100 PSI PI 03

Inlet
N1
Centrifugal Charge Pump
Divert Valve Optional
FMC Technologies PD Meter
Check Valve
Franklin Double Block and Bleed Valve
INVALCO Back Pressure Valve
Check Valve
Outlet
N3

FMC Technologies Basket Strainer w/ Perf. Plate
Check Valve
Divert Valve Optional
Optional

Manual Sample Port
Check Valve
PI
LG
Sample POT 15 Gallon w/ Quick Opening Closure
FMC Technologies Promass Coriolis

Vacuum Breaker
Sample Pump

Divert Discharge
N2
Skid Limits

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