



Monitor bulk product transfers to and from your facility or from tank-to-tank within your facility

Real-time Status, Alerts & Reports

FuelsManager's Product Movement Tracking System is an ideal solution for facilities that do not operate an automation and control system, such as a DCS, or do not have integrated hardware capable of recording and storing important product movement data.

Designed for Your Operations

Operators are able to capture, view, and archive data for multiple product movements in real time. They are also able to reconcile movements after they have completed, identify discrepancies, and print movement tickets or produce reports detailing the actual amounts of product transferred. The system captures infomation automatically from field devices for all common movement types, including tank-to-tank transfers, charges, shipments, receipts, yields (rundowns), water drains, and blends.

Integrating Data from the Field

The movement system captures inventory data from field devices, such as RTUs, PLCs, automatic tank gauges, and reset/rollover flow meters. This allows data to be automatically collected and used in gross and net volume, mass, or flow rate calculations. If required these values can also be entered manually. For instance, you may want to reconcile measured volumes against third-party certified hand gauge data.

Daily Accounting

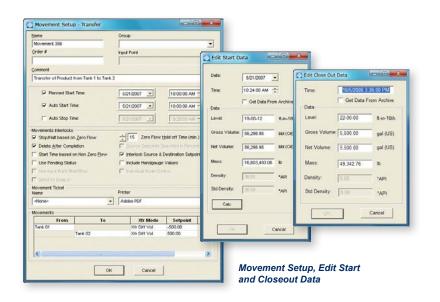
If a product movement continues for several days, a closeout record is written daily and a new record is opened. This provides a calculation of totals on a daily basis. If the source and destination for a movement have measurement devices, the difference between the source and destination is recorded so that your operators are aware of any discrepancies.

FuelsManager®



Product Movement Tracking

for Tank Farms, Terminals & Refineries



Refresh Fmail Treeview Print View/Zoom Pages Fast Find -100% b bi = 8 4 9 1 of 1 44 Report Tool Bar × 4 4 9 1 100% * Movement Delivery Ticket - Transfer Date of Re 05/21/2007 10:27:28 Transfer of Product from Tank Step Time 05/01/2007 10:27:00 Product Level Temp Anh Temp 0.01 ##1 56,2 0.0 Tank 01 Орные 60.0 43.4 \$5,786 MULTOR 18-10-10 6-1-100 0-01-14 6-3- 100 36.5 Closed Te Tenk 02 23-11-02 8-m-100. 60.0 43.4 'F 'F 0.04.02 42.0 67,904 24-01-04 6-in-105 60.0 43.4 '7 '7 0-04-02 6-3-100 42.0 60,41 Mairos Closed

Typical Movement Ticket/Report

Reports and Tickets

Standard reports and tickets are supplied with the movement system or your operator can create custom reports and tickets using thirdparty reporting tools. Reports and tickets can be formatted based on your business needs. Reports can be previewed by the operator and then printed or scheduled to print automatically, such as when a movement ends or on the daily closeout schedule.

Movements and Transfers



The movement summary provides the operator with an easy-to-read tabular display of current product movements and a means to create and control new movements. Multiple movements can be configured and edited in-line with operations, without shutting down the system. They can be modified or corrected after completion using archived data collected by the movement system, thereby ensuring accurate start/stop data is used. Operators can easily expand or contract each movement to display/hide nodes and details for each individual movement or open multiple movement history windows and visually compare movement data from different days.



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Transfer Setup, Modification and Closeout

The organized interface provides operators with an easy-to-use system for managing product movements.

- Automatically start and stop the collection of movement data for multiple movements based on plant status, such as a valve opening or pump starting, scheduled date and time, or from imported bulk shipment schedules
- ► Configure daily closeout time for any single time during the day
- Configure operational alarms at critical set points to automatically alert your operators
- Integrate with customer order, logistics, planning, and yield-accounting systems using custom interfaces to transmit real-time movement information

Movements	Movements	Context	Movement		Movem		Column	
& Nodes	Туре	Menus	Alarms		Detail	s He	aders	
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FuelsManager - Movement Sum	mary							
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Movement Summary							41	
Name	Nove Type Plan	ned Start Time Auto Sta	rt Time Xfr Setpoin	t [Time Remaining	State	Level	
Movement 14	Shipment	5 31 200	7:30:52 AM			Inactive		
From Tank 11	1.220.200	10 million (10 million)	and a second	3,500.00				
To ETHANOL								
∃ 794 YIELD	Run Down	2				Active		
1218 to waste	Water Drain	New Stow All	•		0h00m00s	Active		
- From Tank 12		Clear Sort		40.00.00	0h00m00s		41-09-00	
- To WASTE		Copy						
- 7918 to alky unit	Charge	Celete				Inactive		
- From Tank 7		Setup		100.00				
- Te ALKY UNIT		Intishe Novemant						
■ 904	Run Down	Statuate Node	and the second s			Active		
- Movement 24	Run Down	Stop Monement Stop Node	RealTime Data Historical Data			Active		
3 mixts	Run Down	Reset	TRANSIC COLO			Active		
⊡79	Run Down	Hold For Manual Yalu	es			Active		
- From Yield - Pent		Edit Start Data						
- To Tank 7916		Set Gross Volume		15.00.00	0h00m00s		1.00.00	
I to 12	Run Down	Sat Not Volume				Active		
1 TO 1217	Run Down	Edit Hase Edit Handaause Velu				Active		
∋ hds to 79	Run Down	User Data				Active		
- From Yield		Increase Ford						
- To Tank 79		Decrease Font		20,000.00			28-10-15	
J YIELD TO 12	Run Down	✓ Grid Lines				Active		
B Movement 26	Run Down	Automatic Values				Active		
∃ TO TRUCKS	Shipmont	 Handpauge Values 				Active		
1220 TO FC	Charge	Discrepancy as %				Active		
	Shipment					Active		
± 79 TO 37	Blend					Active		
*205 - WEST						Active		
						Author		