Banlaw
ResTrack™ Xpress

Fuel Management Field Controller

Delivering secure, accurate, affordable control of all your high value liquids.
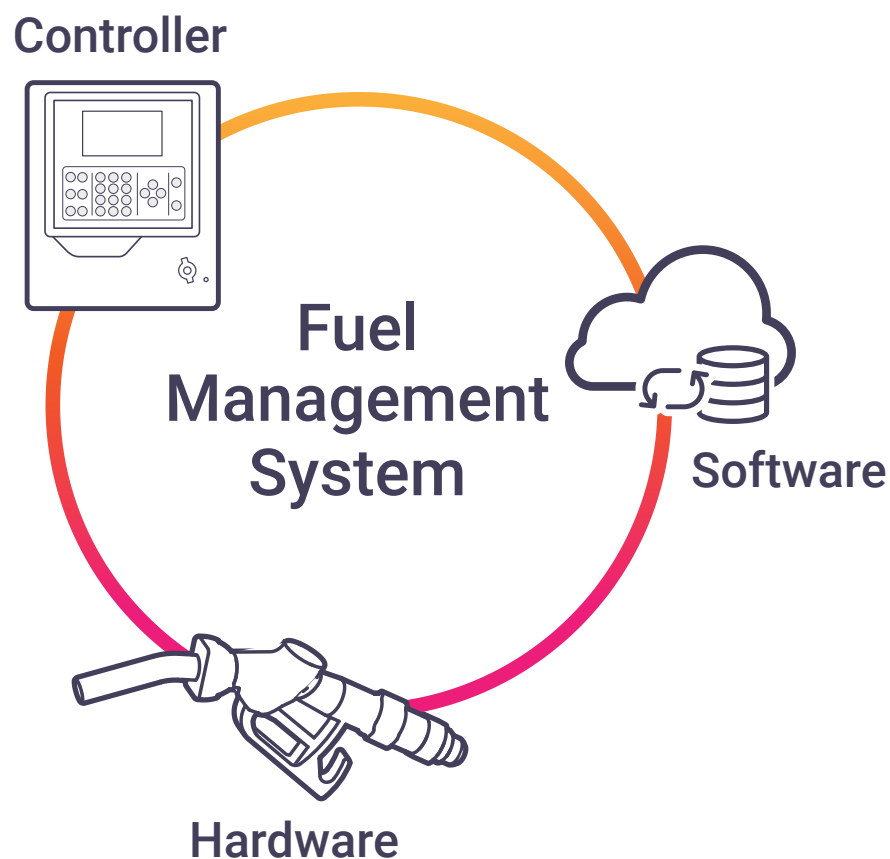
BANLAW

Liquid Asset Intelligence

What is a Fuel Management System?

A Banlaw Fuel Management System is a combination of hardware and software technologies that work together to monitor delivery, storage, dispensing, and consumption of liquid assets, whilst providing security, access control, and critical business insights.

Controller

Fuel Management System

Software

Hardware

Controllers

Banlaw field controllers are at the heart of the Fuel Management System. They are deployed on-site in the vicinity of bulk storages, fuel pumps, and dispensing points. The Controllers manage all local fluid access and security, as well as accurately capturing data such as tank levels, fuel dispensed into equipment, fluid moves between storages, and more. Configured to your specific project scope, Banlaw also manufactures field controllers for mobile refuelling applications, automated stock rotation, and the integration of electronic safety systems.

Software

The data collected by our field controllers is automatically aggregated and analysed within ResTrack RMS, Banlaw's Liquid Resource Management Software. Our ResTrack software provides complete visibility, and enables accurate reporting, reconciliation, notifications when you need them, and compliance across all liquid assets.

Connected Hardware Technologies

Banlaw field controllers are compatible with a wide range of identification methods and data collection devices. Industry-best fluid security is enabled through installation of our Dry Break and Splash Fill Auto ID products. Powerful fleet insights are delivered automatically with the deployment of our Banlaw On-Board Device. Precise fuel reconciliation is unlocked with temperature-compensated measurements; ensuring you only pay for the liquids you receive, and that all dispensed fluids are tracked to the asset which consumed them. Some of these complementary Banlaw technologies are listed at the end of brochure.

Banlaw ResTrack™ Xpress

The Banlaw ResTrack™ Xpress is the central component in a complete Fuel Management System. This field controller is a cost-effective liquid management device built to withstand harsh operating environments, provide ease of use, and deliver Secure Fuel Inventory Monitoring and Control.

The Xpress Controller boasts industry-best fluid security and data collection technologies, and seamlessly connects with our cloud or locally-hosted liquid management software. It provides real-time actionable insights for your operations and delivers many enterprise-level capabilities at an affordable price.

▶ Intuitive User Interface

▶ Seamless Cloud Integration

▶ Rugged Design for Industrial Worksites

▶ Built-in Security Features
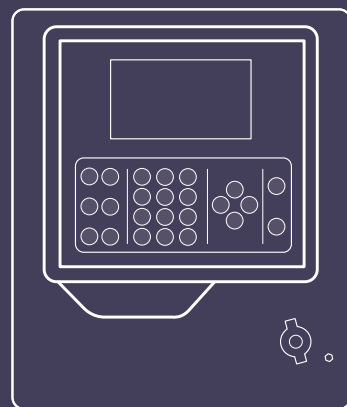
▶ Affordable for all industries

Achieve safety, savings and control of your resources

ResTrack manages these functions...

Delivery

Storage

Dispensing

...to deliver productivity gains for these stakeholder groups

Hydrocarbons Champion

Business Intelligence / System Administration

Commercial / Taxation

Procurement / Finance

IT / Communications

Infrastructure Management

Maintenance / Engineering / Asset Management

Stores & Logistics

Environmental

Production / Operations / Bus. Improvement

Corporate

Liquid product Suppliers

Banlaw engineers integrated transfer, measurement, control equipment and systems to manage high value liquid assets.

We help companies improve their productivity by reducing fluid loss, reducing fluid contamination and delivering more efficient and safer resource management processes.

Xpress Controller Key Benefits

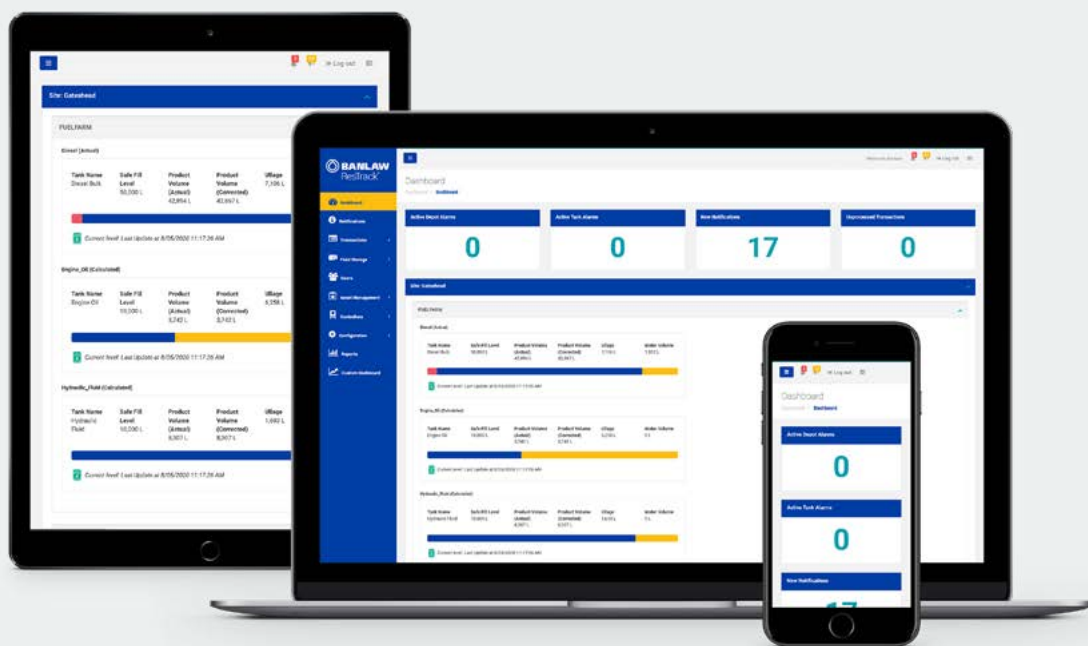## Powerful Capabilities at an Affordable Price

Created by the global leader in enterprise-class liquid resource management, the Xpress Controller is designed to operate on industrial work sites all over the world. This compact unit manages user and equipment identification, pump control, ball-valve control, and flow metering for up to 4 nozzles.
It also provides precision, real-time tank gauging for 4 tanks. It's as simple as you need and as scalable as you could require.

> The Xpress Controller offers enterprise level capabilities at an affordable price, making it ideal for any industry.

Provides Accuracy, Visibility and Control

Banlaw ResTrack™ Xpress seamlessly connects with our cloud or locally-hosted Liquid Management Software, enabling full visibility and control of the fluids you manage. As a business, you receive accurate and actionable business insights without the need for manual data collection processes. Information gathered can be used for efficient and accurate reporting, including consumption, carbon reporting, and other audit-ready inputs for fluid reconciliation, and tax office compliance. For improved reconciliation accuracy, all tank levels and flow measurements can be temperature compensated, a feature normally only available in more expensive offerings. ResTrack Xpress also features an offline data capacity of over 65,000 transactions, ensuring your data is retained even when no network connection is available.

The Xpress automatically records fuel dispensed into vehicles and seamlessly syncs data to the Liquid Management Software. This process provides accurate reporting, full visibility and actionable business insights.

The Xpress is completely dust-tight and can easily withstand industrial work environments.

Sturdy, Reliable, and Low Maintenance

The Xpress Controller can withstand harsh industrial work environments, whilst providing safe operation and control of your fuel and service fluid infrastructure.

In this product, Banlaw has harnessed decades of learnings from our FuelTrack product, as well as the highly-technical Advanced Controller offering. These insights and the most highly-valued features have been distilled into the Xpress, our most reliable and cost-effective FMS Controller.

With no compromises on quality, and supported by Banlaw's Remote Helpdesk Monitoring, the system is virtually maintenance-free. The Xpress Controller is a competitively priced, technology-leading, and reliable solution.

The high-brightness LCD Display can easily be read in full-sun, and the keypad can be operated with gloved hands.

The compact unit can be maneuvered and wired-up by a single electrician.

Simple, Flexible, and Cost-Efficient Installation

Banlaw ResTrack™ Xpress features a compact and lightweight design. Installation costs can be kept to a minimum because a single electrician can easily mount and terminate the controller within a short period. Accompanied by Banlaw's remote commissioning and 24/7 helpdesk support, your Resource Management System is up and running quickly and cost-effectively.

The Xpress Controller can manage between 1 and 4 Fuel Dispensing Nozzles (or other fluid transfer functions such as gensets, unloading, etc.). Additionally, the controller provides Automatic Tank Gauging for up to 4 storage tanks. The Xpress Controller is adaptable to the vast majority of Fuelling Infrastructure requirements, and is a compact and cost-effective hardware solution.

Built In Security Features

The Xpress Controller adopts all of Banlaw's proven security features when it comes to approved access. It interfaces with Banlaw's Heavy Vehicle and Light Vehicle Auto-ID technologies for maximised fuel security, and can also wirelessly capture odometer and engine hours data as vehicles are being filled. Other ID methods such as user pin numbers, employee swipe cards, fobs and Long Range RFID can also be used.

The Xpress is compatible with existing employee swipe cards.

Banlaw ResTrack™ RMS Features

Liquid Management Features	
	Manages between 1 and 4 Nozzles / Fluid Transfer functions
	Volume scale granularity of 0.01 Gallons (G) or Litres (L)
	Supports a maximum transaction size up to 6,500,000.00 G or L
	Operating temperature range of -13°F ≤ Tamb ≤ 122°F (-25°C ≤ Tamb ≤ 50°C)
	Works with all common, high-quality flowmeters
	Stainless steel enclosure with IP65 ingress protection excludes dust as well as low-pressure water spray
	Temperature compensation (Diesel, Petroleum, Gas, Jet, Oils, Lube Oil, Crude)
	Odometer and Engine Hours input (manual or automated)
	Choice of cloud-hosted software or installed on a local database

User Interface	
	7" high-brightness colour touchscreen for easy daytime and night-time viewing
	Hardened Gorilla glass capacitive touch interface works with gloved hands

FMS Memory	
	Maximum offline transaction capacity – 65,536
	Maximum fleet size (vehicles) – 104,857
	Maximum number of users (RFID tags) – 209,715

Automatic Tank Gauging	
	Precision tank level monitoring using temperature-corrected fluid levels
	Local tank level display on the controller screen
	Real-time visibility within the cloud-hosted software and notifications for business users or fuel suppliers
	Up to 4 storage tanks can be monitored per Xpress Controller

Communications	
	The system continues to work optimally whilst offline
	Ethernet
	Wi-Fi
	3G / 4G

User & Equipment Identification / Security	
	User pin
	Key fob
	Card Reader / Employee Cards – HID or Cardax
	Splash Fill Auto-ID (LV)
	Dry Break Auto-ID (HV)
	Long Range RFID
	i-Button
	RFID Tag

System Cabling Options	
	Power (24Vdc)
	Up to 4 x Storage Tanks
	▶ Tank Level Probe ▶ Temperature Probe
	1 to 4 x Nozzles / Fluid Transfer Points
	▶ Equipment Auto-ID Signal ▶ Nozzle Flow Meter
	▶ Nozzle Fluid Temperature ▶ Ball Valve Control
	▶ Pump Control
	Wireless Gateway (Optional Wireless RFID technologies)

Standards & Certifications	
	Certified for compliant installation in most countries (UL/AS/MDG/ICES/FCC/etc)

Please refer to the Product Specification Guide (PSG) for a more complete overview of Xpress Controller functionality and technical parameters.

Complementary Products and Services

Controllers

▶ Field Controllers
- Tank Side Controller
- Advanced Controller

See next page for a comparison of our Controllers.

Software

▶ ResTrack RMS Liquid Resource Management Software

Connected Hardware Technologies

▶ Dry Break Auto-ID
▶ Splash Fill Auto-ID
▶ Long Range RFID
▶ Banlaw On-Board Device

Banlaw FlowLogix™

▶ Skids
▶ Loading Arms
▶ Built Solutions
▶ Turn-Key Projects
▶ Asset lifecycle services for assured business outcomes

Industry-best fluid security is enabled through installation of our Dry Break or Splash Fill Auto ID products.

Field Controllers at a glance

Tank-Side Contoller

▶ Number of Storage Tanks Monitored up to 4

▶ User Interface - Optional digital display

Xpress Controller

▶ Number of Storage Tanks Monitored - Up to 4

▶ Number of Fluid Transfer Functions - 1 to 4

▶ User Interface - 7" colour LCD display and touch panel

Advanced Controller

▶ Number of Storage Tanks Monitored - No limit

▶ Number of Fluid Transfer Functions - 1 to 16

▶ User Interface - 10.1" colour touch screen

Contact Banlaw today if you need secure, accurate, affordable, and automated fluid access control.

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