



PROJECT OVERVIEW

A forestry support contractor based in Kalimantan, Indonesia, provides fuel and field services to remote logging camps and sawmill sites. These operations, often deep within forest concessions, rely on mobile refueling stations to keep chainsaws, skidders, bulldozers, and harvesters running without disruption.

With limited infrastructure and difficult terrain, onsite diesel storage in bunded mobile tanks is critical. These tanks are commonly mounted on 4WD trucks or skids and transported through forest roads to field operations. In such remote and rugged conditions, electrical systems are prone to failure, and reliable, mechanical metering becomes essential.

The GPRO® QM40 Mechanical Flow Meter was deployed at every mobile refueling point. Mounted directly to the pump or fuel outlet, it allows for real-time, visual tracking of how much diesel is dispensed to each machine. This ensures tighter cost control, operational efficiency, and fuel accountability in a setting where supply logistics are complex and expensive.

METER REQUIREMENTS

- Mounted to mobile or skid-based fuel transfer tanks.
- Fully mechanical – no batteries or electronics.
- Operates reliably in tropical humidity, mud, and high vibration environments.
- Visible, resettable display for quick batch tracking.
- Durable and lightweight for mobile deployments.
- Minimal calibration and maintenance in remote areas.



APPLICATION BRIEF

FUEL DISPENSING - FORESTRY OPERATIONS

July 23, 2025

PRODUCT SPECIFICATIONS



- $\pm 2\%$ accuracy across the operating range
- Cast aluminum body – lightweight and corrosion resistant
- Mechanical register with batch and total counters
- Flow range: 23–151 L/min (6–40 GPM)
- 1" NPT (F) inlet/outlet for quick connection
- Zero power requirement – ideal for field use
- Easily calibrated in the field
- Designed to handle heat, moisture, dust, and impact
- Built-in strainer ideal for use in tropical climates with potential dirt, dust, and water exposure
- Frictionless Mag Drive means no seals internally and no leaks

PRODUCT SOLUTION

The GPRO® QM40 Mechanical Flow Meter is ideal for off-grid fuel dispensing in Indonesia's forestry sector. Its rugged construction, ease of use, and total independence from electronics make it a trusted metering solution for mobile diesel tanks operating in harsh field conditions.

The QM40 flow meters are now used across the fleet to provide accurate fuel tracking for clients operating under tight production schedules and strict environmental controls. The flow meters deliver simple, dependable performance – even in the heart of the jungle.