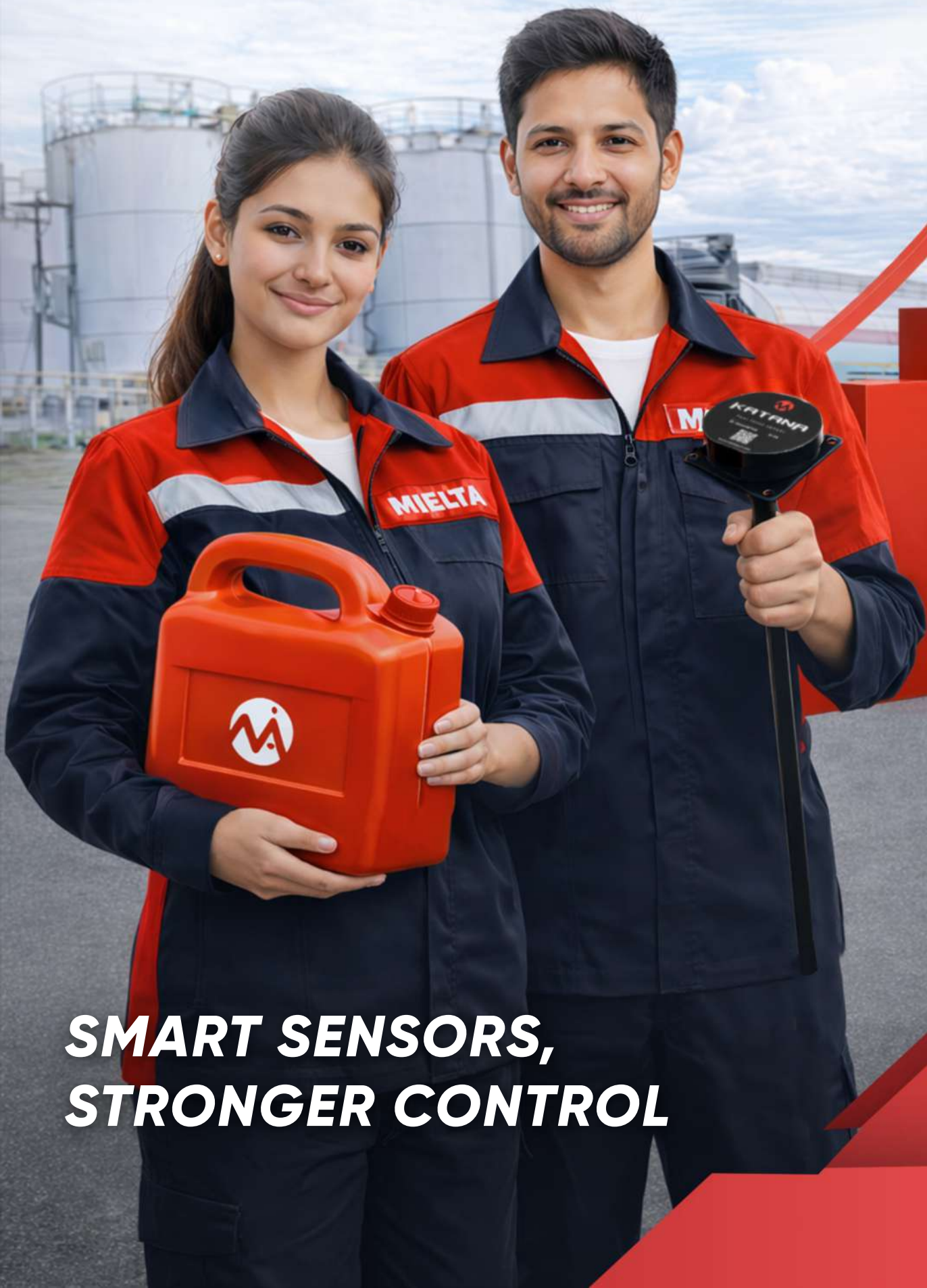




**SMART SENSORS,
STRONGER CONTROL**

KATANA

The Ultimate Universal Fuel Monitoring Solution

Protect your fleet, prevent fuel fraud, and maximize ROI with unmatched connectivity.



100% Universal & Versatile: Features RS-485, Analog, and Frequency outputs in a single, highly adaptable wired device.



Extreme-Condition Proof: Flawless operation from -40°C to +80°C.



Theft & Fraud Protection: Detects fuel adulteration, sabotage, and leaks instantly.



Unmatched Longevity: Premium stainless steel outlasts standard aluminum sensors.



Engineered to conquer Asia's most challenging environments from scorching summers and torrential monsoons to freezing mountain altitudes.

The Problem with Standard Aluminum Sensors:



Corrode rapidly after exposure to high humidity and poor-quality fuel.



Require frequent and costly recalibration.



Prone to moisture damage and vibration failures.

Standard Sensors Fail Where You Need Them Most. Katana Thrives.

Asian fleet operations face unique challenges: heavy monsoon rains, high humidity, rugged terrains, and inconsistent fuel quality.

KATANA

The MIELTA KATANA Advantage:

- 1. Premium Stainless Steel Construction:** Waterproof (IP67) and exceptionally resistant to dust, UV radiation, and heavy monsoon rains.
- 2. No Frequent Recalibration:** Advanced engineering resists "drift," holding perfect calibration through extreme temperature fluctuations.
- 3. Oil & Fuel Resistant Housing:** Specially designed to tolerate low-quality fuels. Fully resistant to corrosion from ethanol, acetone, and harmful additives commonly found in remote regions.





Fuel Theft & Fraud Detection

 **Detects fuel adulteration** - alerts to water, acetone, and ethanol - common at remote stations

 **Identifies leaks** - alerts to foreign liquid ingress, rainwater, and tampering attempts

 **Secure logs** - retains data even if thieves temporarily disable the sensor

Engine Protection from Damage

 **Prevents corrosion and failures**- water or contaminated fuel destroys injectors, pumps, and filters

 **Early warning system** - fleet managers can drain fuel before damage occurs

 **Avoid downtime** - a breakdown in the way means lost profits and stranded cargo



Extreme Durability & Zero Maintenance

 **Universal connectivity** - eliminates compatibility issues; works flawlessly with standard wired tracking systems

 **Zero recalibration** - stays perfectly accurate despite extreme temperature shifts

 **Weatherproof** - premium stainless steel resists monsoons, humidity, and corrosion



Smart Self-Diagnostic System

 **Remote error detection** - Instantly identifies the exact cause of incorrect data or calibration loss

 **Precise error codes** - sends specific numeric codes detailing the exact fuel deviation

 **Autonomous quality alerts** - warns managers immediately if water or bad fuel is detected



Active Protection & Reliability

 **Anti-tamper design** - shockproof housing and a metal-shielded cable prevent physical sabotage

 **Spark-proof power supply** - 3-zone galvanic isolation protects against power surges and electrical tampering

 **Secure backup** - saves your exact calibration tables and passwords directly on the sensor



Advanced Universal Hardware

 **All-in-One Wired Outputs** - RS-485, Analog, and Frequency combined. One sensor fits practically any standard GPS tracker.

 **Adapter Ready** - Easily connects to external adapters if you need to upgrade your vehicle's dashboard or telematics display.

 **IP67 & Detachable Head** - Extreme waterproof rating with quick, tool-free electronic head swaps in the field, keeping the tube securely in the tank.



TECHNICAL SPECIFICATIONS

Housing Material :	Shockproof aluminum body (Head) with a Stainless Steel measuring tube and flange (Probe)
Ingress Protection (IP Rating) :	IP68 (Fully dust-tight and protected against continuous submersion)
Operating Temperature :	-40°C to +80°C
Power Supply :	8 – 55 V (Spark-proof with 3-zone galvanic isolation)
Power Consumption :	0.5 W
Communication Interfaces :	RS-485, Frequency output, and Analog
RS-485 Baud Rates :	9600, 19200, 38400, 57600, 115200 bps
Frequency Output Range :	30 - 2048 Hz (Resolution: 1 Hz)
Relative Measurement Error :	≤ 1%
Standard Measurement Length :	700 mm (Unified length)
Averaging Interval :	1 to 60 seconds (Software adjustable)
Configuration Interface :	Wired via PC Configuration Tool (Windows)
Advanced Features :	Password protection, configuration change log, offline calibration table storage

Advanced PC Configuration: Total Setup Control

Setting up the Katana is precise and highly customizable. Using the dedicated MIELTA PC Configuration program, installers can quickly perform "empty/full" adjustments, manage password protection, review configuration change logs, and store precise calibration tables directly on the sensor. Combined with its universal RS-485 and Frequency outputs, the Katana guarantees optimal setup for any telematics system.



KATANA



***THE TOUGHEST ROADS DEMAND
THE STRONGEST RESOLVE.***



***WE GUARD YOUR RESOURCES SO YOU CAN
BUILD YOUR LEGACY.***



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