



Co Name: Fuel Management
Solutions (Pty) Ltd
Reg 2013/129982/07
VAT 4390265777
11 Floor, 25 Owl Street
Milpark, 2006
South Africa 2195
(PO Box 515, Melville, 2109)
p: +27 11 476 4383
f: +27 11 252 7273
m: +27 83 309 7227
e: nick@fmafrica.com
w: www.fmafrica.com

Automatic Tank Gauging Products



Capabilities



More than 25,000 ACCU ATG has been installed in China, Europe, Middle East, South America and Africa.

+100,000
Accu
stations
in China

Over 1000 + FMA installed and operational Sites in over 17 world wide countries.
Africa, Australia, America, Europe, Pacific rim countries

Accu China based Research & Development centre operating over 20 years.

Accu integration to report through FMA Platforms. Real time site monitoring, Atex rating hardware fit for the most harshest of environments.

Providing management visibility into large and small fleets through fuel monitoring, resulting in fuel cost savings.

Integration with GPS Systems, SAP, ERP management systems. Automatic notifications/warnings and emailed reports.

ATG Products

3 Elements to Tank Visibility

Stock Control

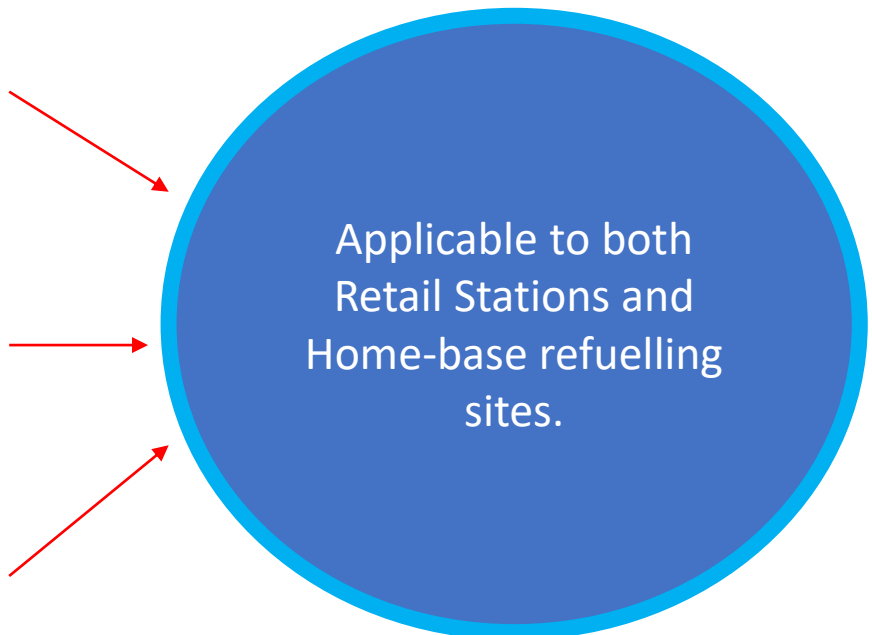
- Low/high level warnings, client & supplier notifications, water level warnings & notifications. Budget control, tank profile viewing for budget predictions etc

On-Site visibility

- Site management & Staff have visibility into the tanks for opening and closing shift recordings / refuelling transactions. Ground staff do not require internet access to view levels.

Leak Detection

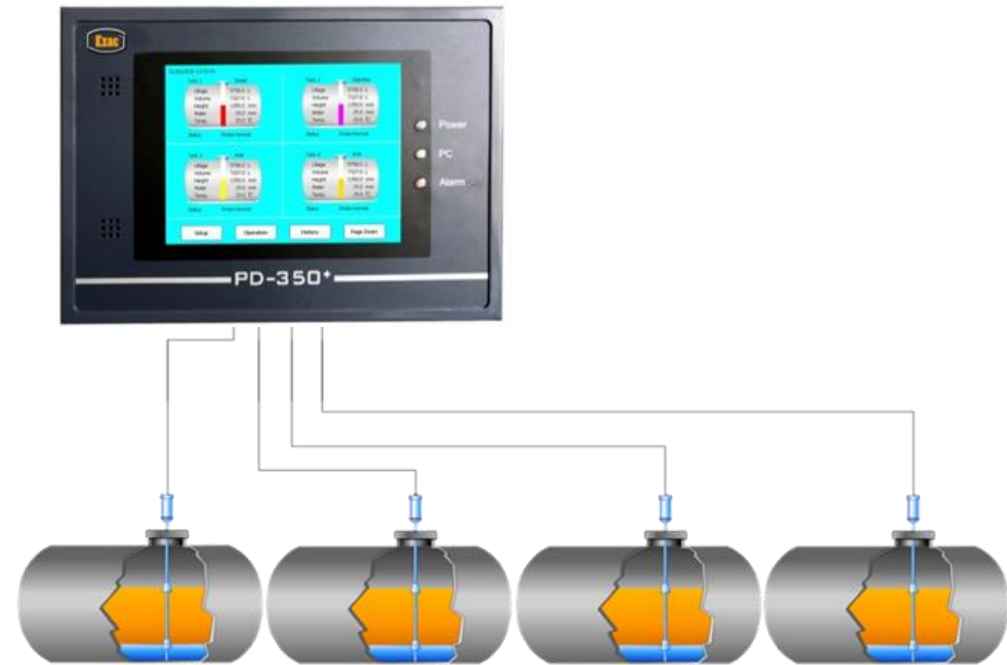
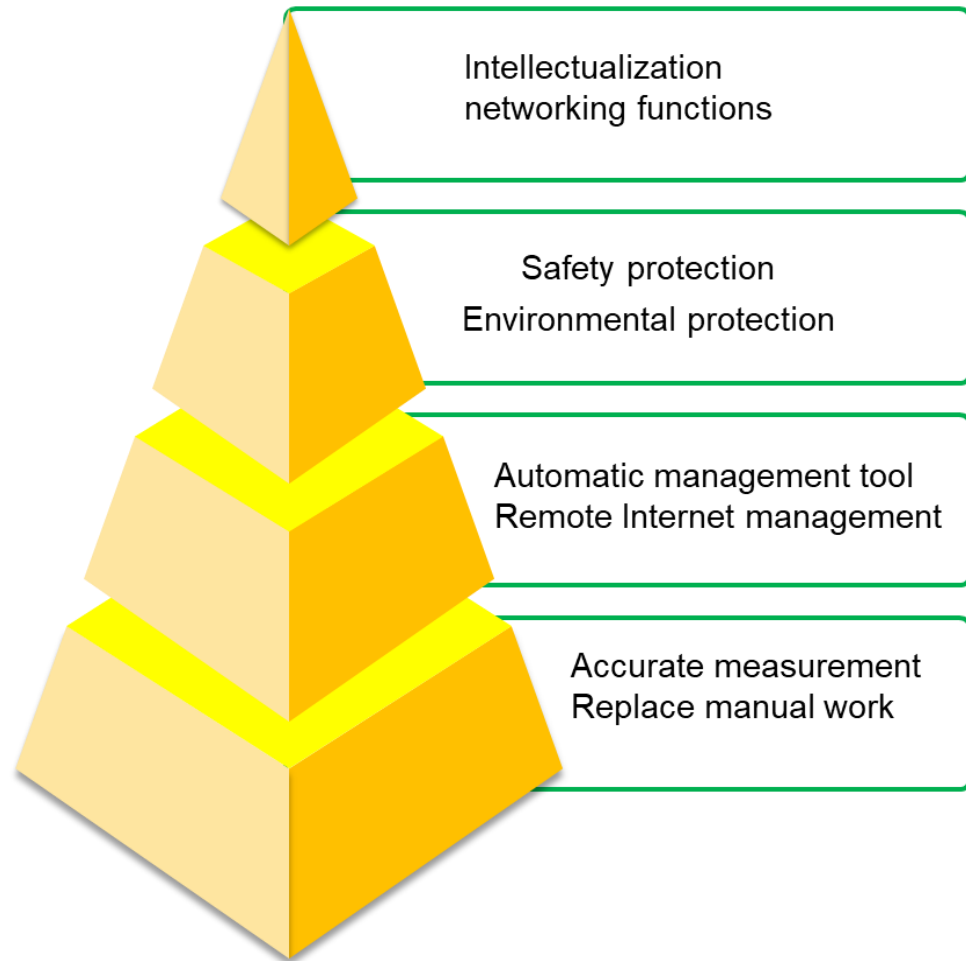
- Leak detection sensors with warnings and notifications via alarm / siren / email & SMS notifications.



Applicable to both
Retail Stations and
Home-base refuelling
sites.



Retail Station & Home Base ATG



PD 350 and ATG



- ◆ Tank calibration
- ◆ BIR



- ◆ Operation authority management
- ◆ Sound-light alarm: high/low level alarm, high water alarm
- ◆ Anti-theft function during non-working time
- ◆ Record all parameter adjustment
- ◆ Leak detection function: standard--0.38L/H or 0.76L/H
- ◆ Anti-over fill
- ◆ Integrate many kinds leak detection sensors



- ◆ Interface: 2 RS-232 ports (one support RS-485), 1 USB, 1 RJ45 Ethernet
- ◆ Communication: Serial port connection PC, connection Internet directly

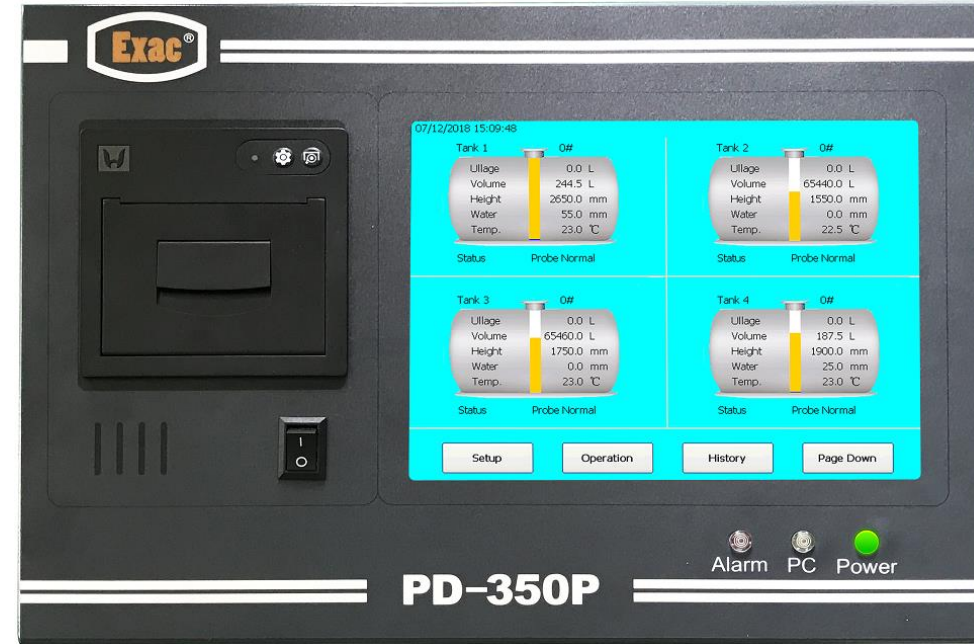


- ◆ Monitor fuel level, water level, temperature, net and gross volume, ullage
- ◆ Monitor delivery and generate delivery report automatically
- ◆ Both automatic shift and manual shift function
- ◆ All kinds reports stored in memory for future queries
- ◆ Tank table: input all points
- ◆ Support tank tilt compensation and can input water level of dead zone
- ◆ Set up fuel list and color according to need
- ◆ Density measurement

PD 350 Console



8.0" LCD Touch Screen



Printer integration Option

Remote Internet Management Tool



➤ Interface: 2 RS-232 ports (one support RS-485), 1 USB, 1 RJ45 Ethernet port

➤ Communication: Serial port connection PC, connection Internet directly

➤ Links to **FMA** ST200 website reporting platform



Environmental Protection

Tank 3

LeakTest standards

0.38 L/H 0.76 L/H

Testing time

Custom Hours

LeakTest type

Manual CLSD

Every day :

Weekly :

Monthly :

Leak test

VCF, standard density

Input VCF

Input standard density

Standard density Kg/m³

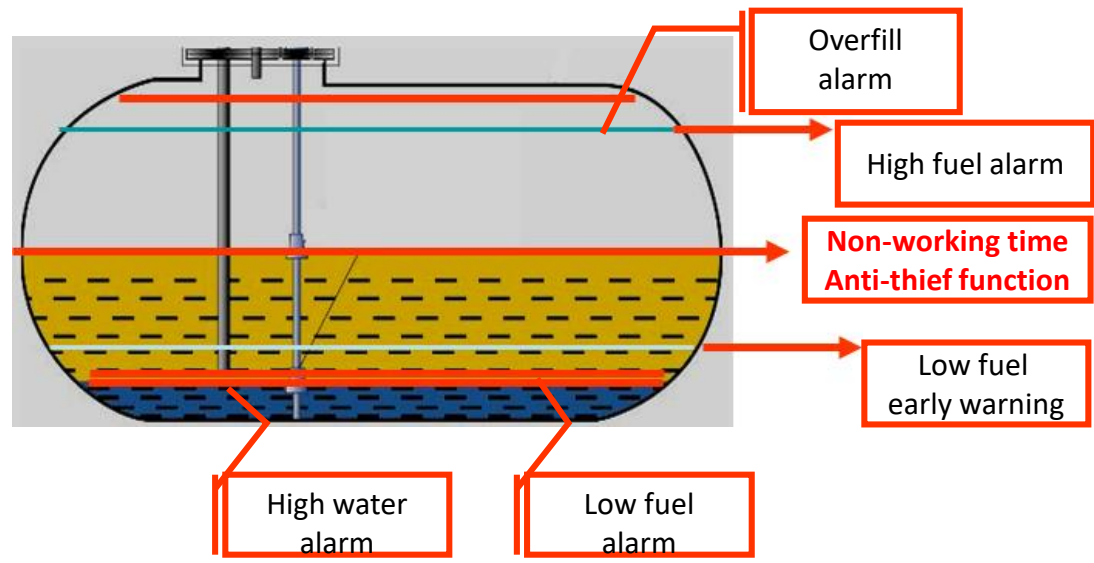
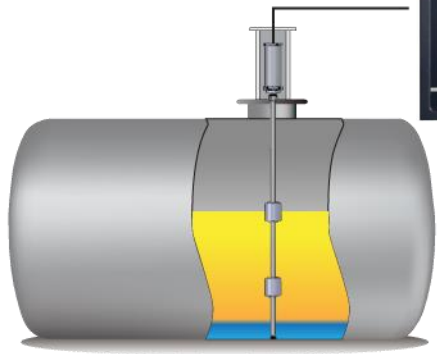
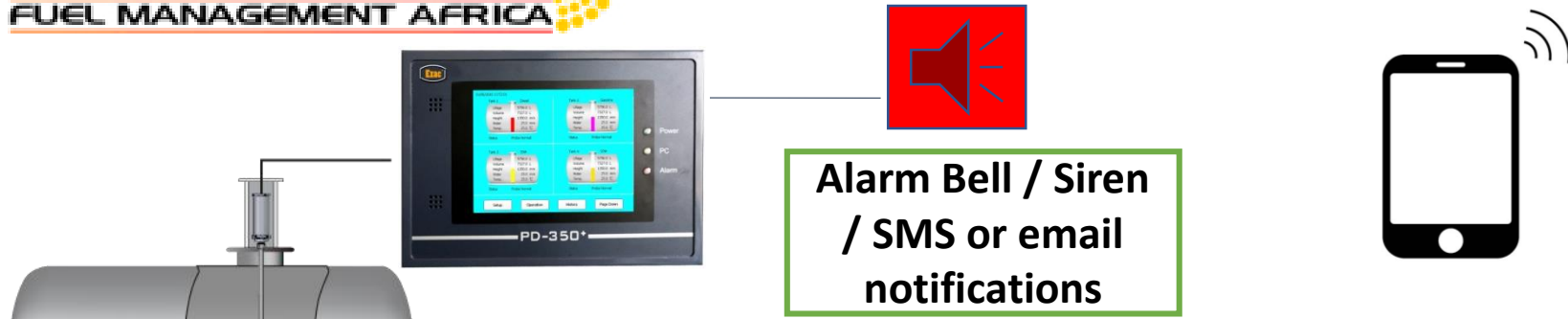
Depending on the density and temperature

Density Kg/m³

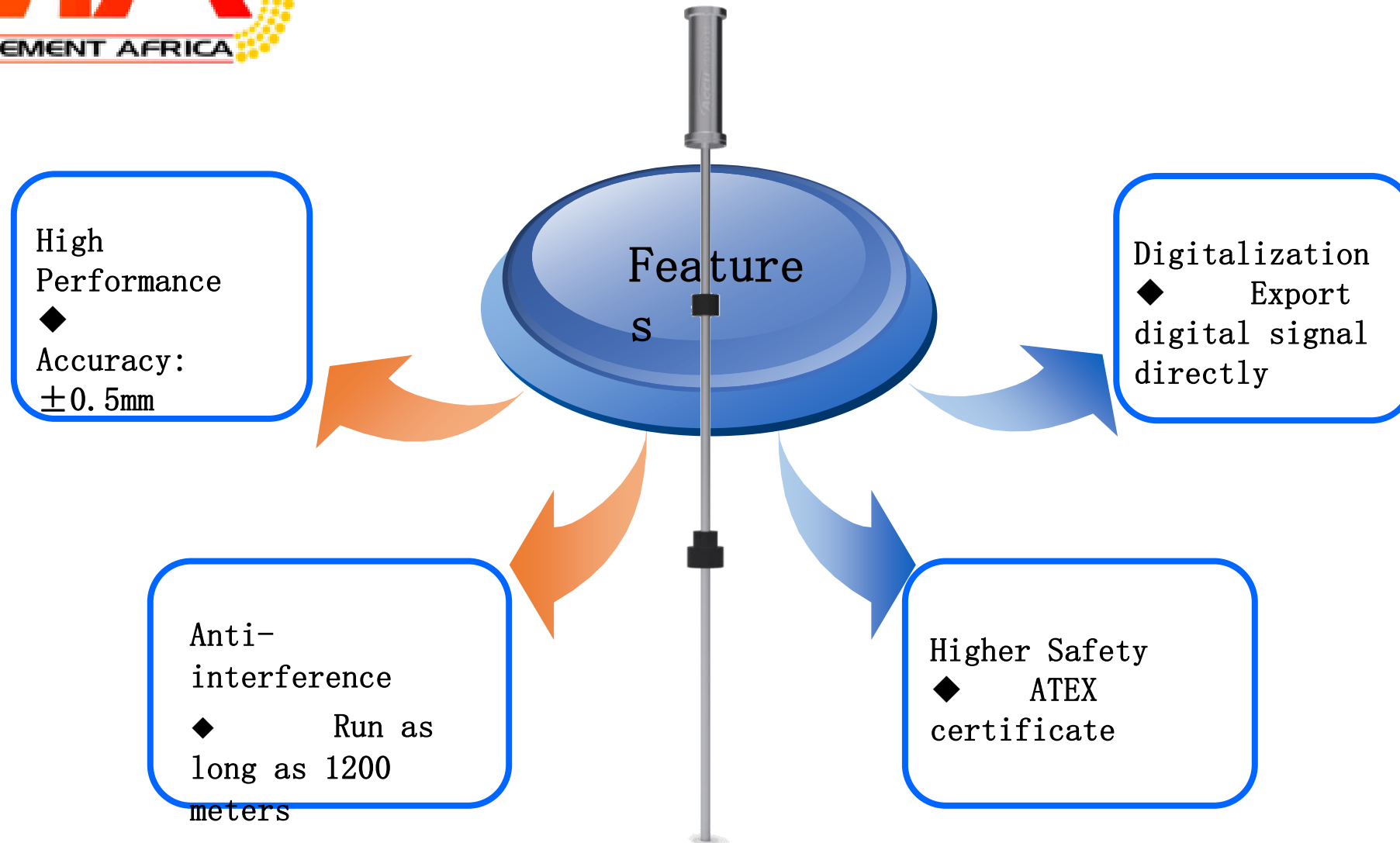
Temperature °C

- Operation authority management
- Sound / light alarm: high/low level alarm, high water alarm
- Anti-theft function during non-working time
- Record all parameter adjustments
- Leak detection function: standard-- 0.38L/H or 0.76L/H
- Anti-over fill
- Integrates with leak detection sensors

Alarms & Notifications



Magnetostrictive Probe



Installations



Above Ground Tank



Underground Tank

PLS Probe DATA Sheet

Item	PLS-5X probe	PLS-5Y probe
Product Level Accuracy	±0.5mm	±0.5mm
Water Level Accuracy	±0.5mm	±0.5mm
Temperature Accuracy	±0.2°C	±0.2°C
Resolution	0.001mm	0.01mm
Repeatability	±0.1mm	±0.2mm
Efficiency	Less than 1 second	Less than 1 second
Leakage Detection Function	Yes	No
Density Measurement Function	Yes (Option)	No
Explosion-proof grade (Safety level)	ExiallBT4 (Intrinsically safe)	ExiallBT4 (Intrinsically safe)
Temperature	-40°C~70°C	-40°C~70°C
Fuel Dead Zone	with3" floater 100mm	with3" floater 100mm
Water Dead Zone	with3" floater 15mm	with3" floater 15mm
Probe Length	0.6m~4.0m	0.6m~4.0m
Method of Communication	RS-485	RS-485
Power Supply	+24~26VDC	+24~26VDC
Probe Canister	IP68	IP68
Max Communication Distance	1200m	1200m
Cable	4-core shielded cable	4-core shielded cable

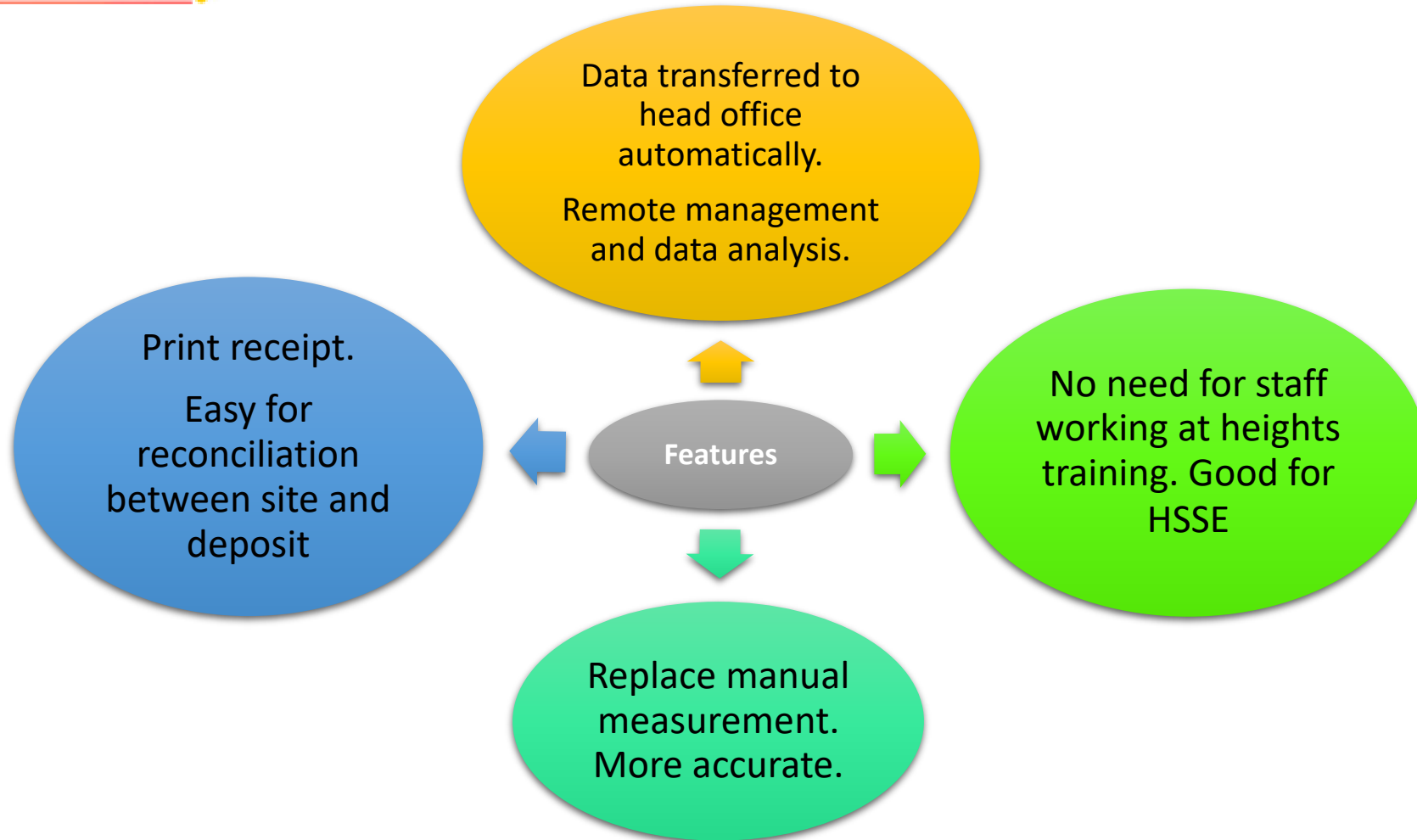




FMA Reporting Platform – ST200



Benefits



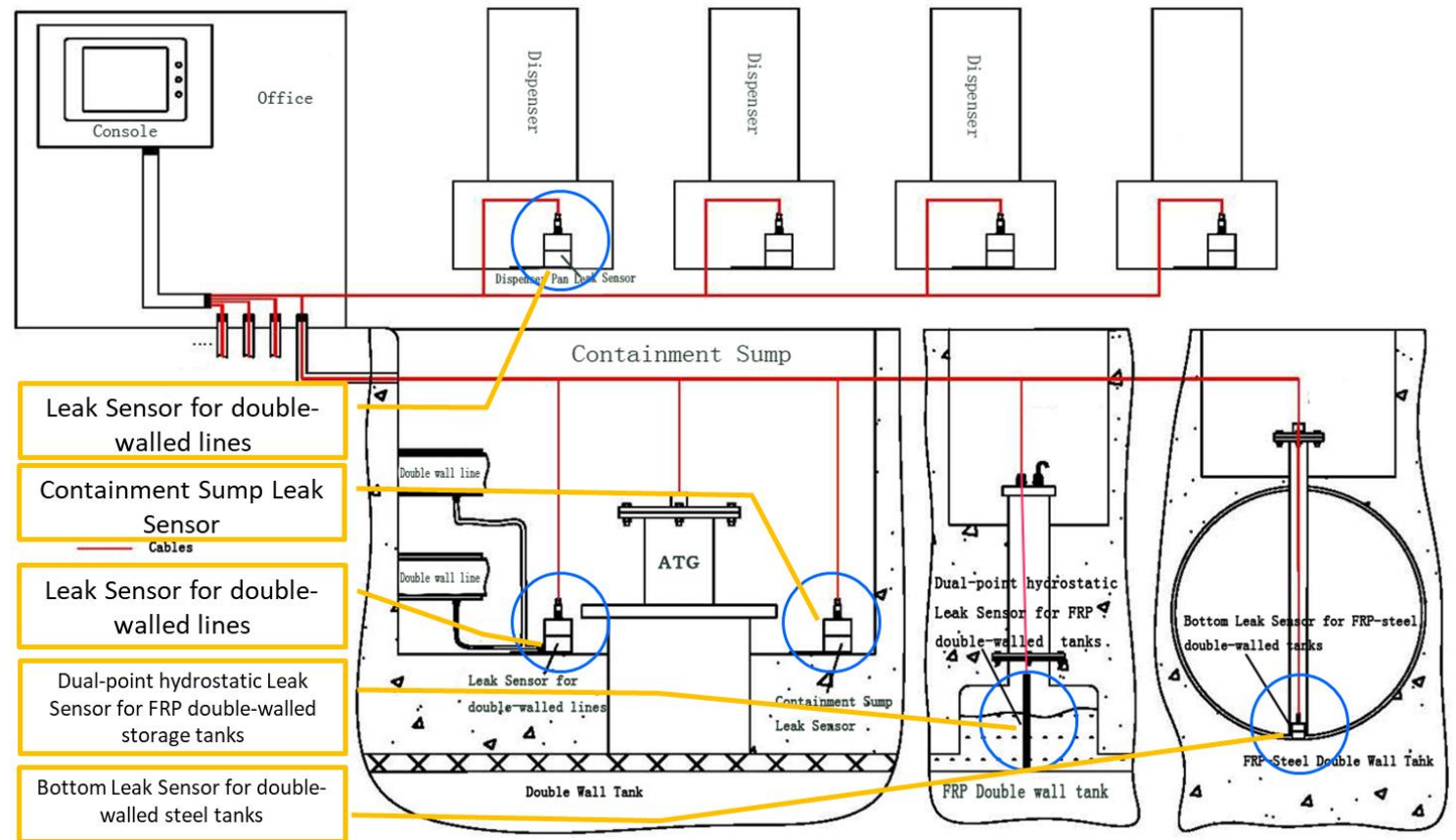
Leak Detection

1. ATG Console has Leak Detection functionality based on standard 0,38l/Hr or 0,76l/Hr.
2. Leak Detection Sensor for Double walled steel tanks.



Leak Detection

- ATG Console integrates with Leak detection sensors.
- Alarms, records and uploads to FMA website.



Bottom Leak Sensor for Double-walled Steel Tanks

Detect dangerous leaks in double-walled steel tanks. The presence of liquid in the interstitial space of double-walled tanks triggers an alarm in LM-T monitor. The visual/audible alarm tells you immediately where the problem is for quick and efficient action to help prevent safety and environmental issues.



Storage	-40°C to +60°C
Operating	-25°C to +50°C(hydrocarbons) 0°C to +50 °C(non-freezing water)
Protection level	IP67

Leak Sensor for Double-walled Lines

Detect liquid or fuel leaks in the interstitial space of double-walled lines;

Once there is a leak, the liquid or fuel will flow in the interstitial space to the lowest point, the leak sensor will detect it and give an alarm in the LM-T console



Storage	-40°C - 60°C
Operating	-25°C - 50°C(hydrocarbons) 0°C to +50 °C(non-freezing water)
Protection level	IP67