TRANTER
SMART SOLUTIONS
A DIVISION OF TRANTER IT

TRANTER SMART SOLUTIONS

DIGITAL OIL & GAS OPERATIONS

Connected monitoring, wellheads, flowlines, pipeline visibility and metering intelligence across your assets.

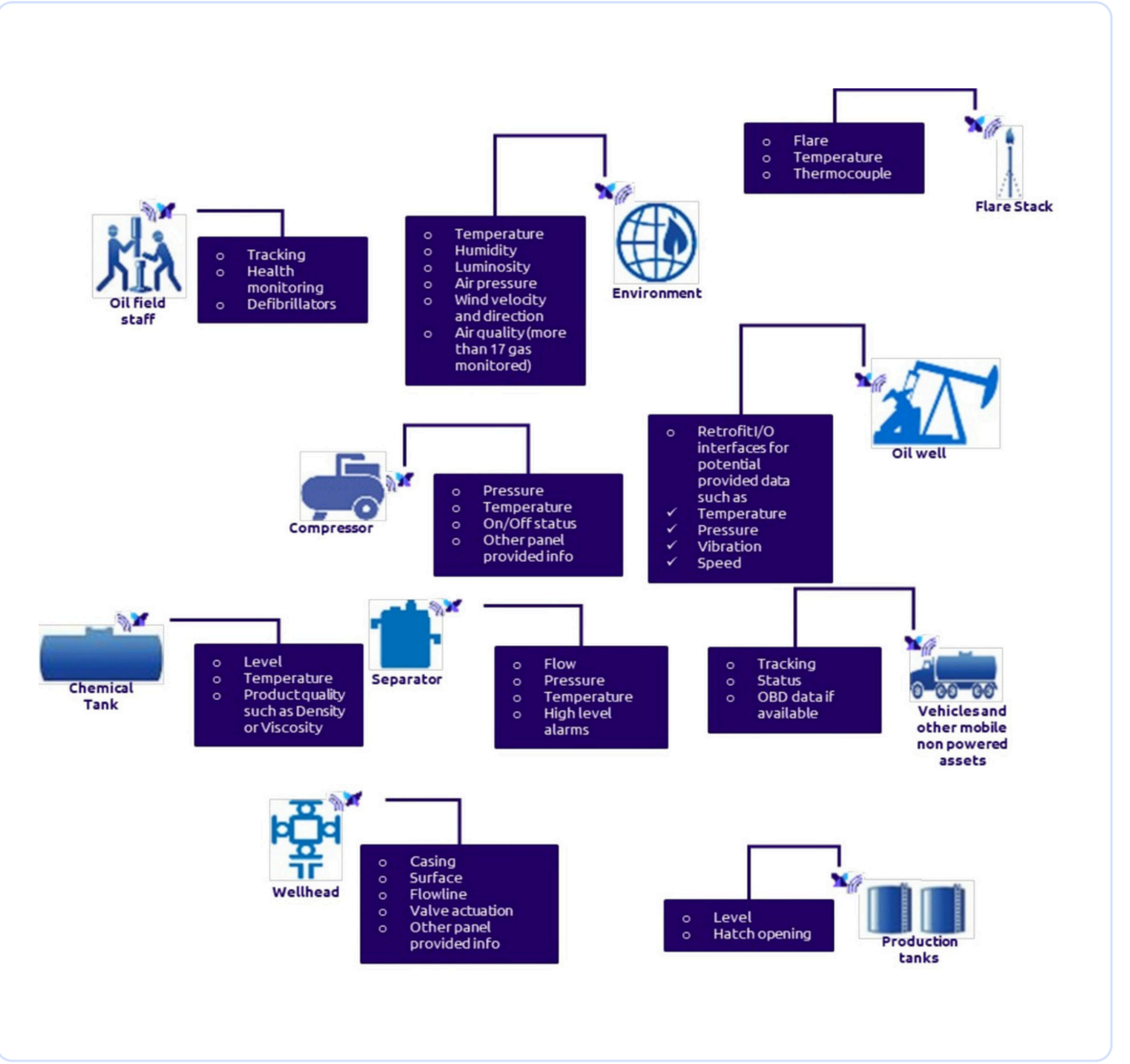
UPSTREAM • MIDSTREAM • DOWNSTREAM

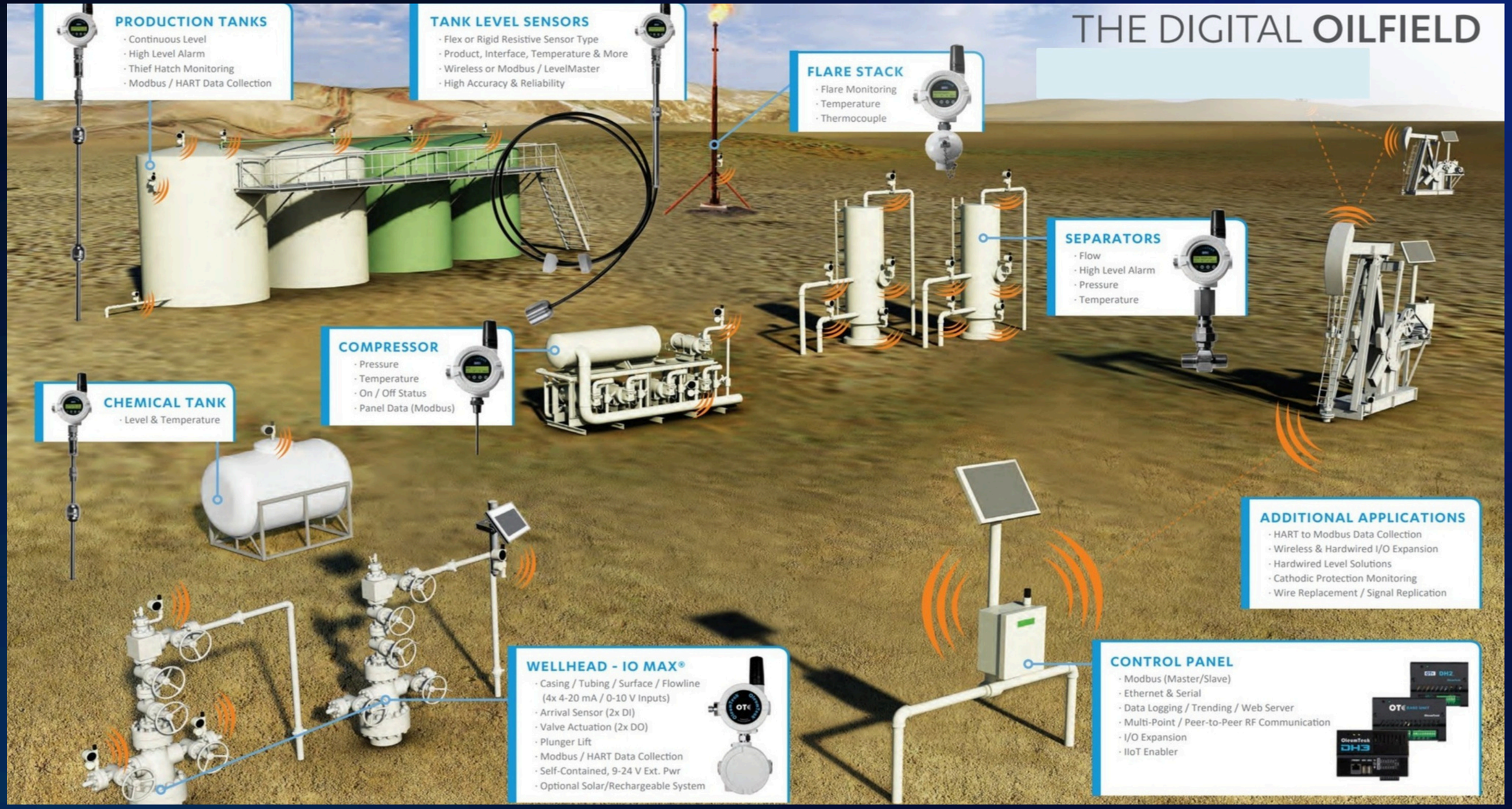
Sensors | Connectivity | Integration | Analytics



TRANTER IT | SMART SOLUTIONS




Oil field staff
Tracking
Health monitoring
Defibrillators
Environment
Temperature
Humidity
Luminosity
Air pressure
Wind velocity and direction
Air quality (more than 17 gas monitored)
Flare Stack
Flare
Temperature
Thermocouple
Oil well
Retrofit I/O interfaces for potential provided data such as
Temperature
Pressure
Vibration
Speed
Compressor
Pressure
Temperature
On/Off status
Other panel provided info
Chemical Tank
Level
Temperature
Product quality such as Density or Viscosity
Separator
Flow
Pressure
Temperature
High level alarms
Vehicles and other mobile non powered assets
Tracking
Status
OBD data if available
Wellhead
Casing
Surface
Flowline
Valve actuation
Other panel provided info
Production tanks
Level
Hatch opening


THE DIGITAL OILFIELD
PRODUCTION TANKS
· Continuous Level
· High Level Alarm
· Thief Hatch Monitoring
· Modbus / HART Data Collection
TANK LEVEL SENSORS
· Flex or Rigid Resistive Sensor Type
· Product, Interface, Temperature & More
· Wireless or Modbus / LevelMaster
· High Accuracy & Reliability
FLARE STACK
· Flare Monitoring
· Temperature
· Thermocouple
SEPARATORS
· Flow
· High Level Alarm
· Pressure
· Temperature
COMPRESSOR
· Pressure
· Temperature
· On / Off Status
· Panel Data (Modbus)
CHEMICAL TANK
· Level & Temperature
WELLHEAD - IO MAX®
· Casing / Tubing / Surface / Flowline
(4x 4-20 mA / 0-10 V Inputs)
· Arrival Sensor (2x DI)
· Valve Actuation (2x DO)
· Plunger Lift
· Modbus / HART Data Collection
· Self-Contained, 9-24 V Ext. Pwr
· Optional Solar/Rechargeable System
ADDITIONAL APPLICATIONS
· HART to Modbus Data Collection
· Wireless & Hardwired I/O Expansion
· Hardwired Level Solutions
· Cathodic Protection Monitoring
· Wire Replacement / Signal Replication
CONTROL PANEL
· Modbus (Master/Slave)
· Ethernet & Serial
· Data Logging / Trending / Web Server
· Multi-Point / Peer-to-Peer RF Communication
· I/O Expansion
· IIoT Enabler

OUR PROPOSITION

Turn field data into operational visibility

Practical IoT and automation solutions that help teams monitor assets remotely and make better-informed decisions.

See assets in real time

Monitor pressure, temperature, flow, tank levels and selected field conditions.

Connect existing systems

Bring field data into gateways, SCADA/HMI, flow computers and analytics platforms.

Respond earlier

Use alerts and trends to identify abnormal conditions and support faster intervention.

Improve accountability

Support operational reporting, asset visibility and measurement reconciliation.

DESIGNED FOR **Remote fields • Flow stations • Gas plants • Pipelines • Storage depots • Fuel distribution**

Monitoring and metering across the value chain

A modular offer that can be deployed as a focused use case or integrated into a broader digital operations programme.

Wellhead monitoring

Casing, tubing and flowline pressure; wellhead temperature; remote readings.

Pipeline monitoring

Pressure and temperature visibility, flow data acquisition, exception alerts and remote asset status.

Flow measurement & metering

Flow rate and totalized flow acquisition; integration with flow computers and compatible meters.

Tank level & inventory

Product/interface level, temperature, volume and high/low level alerts where supported by installed instruments.

Environmental & safety

Temperature monitoring, selected environmental sensors, panic-button devices and asset location alerts.

Forecourt & fuel logistics

Dispenser and tank monitoring, delivery-truck tracking, transaction records and remote reporting.

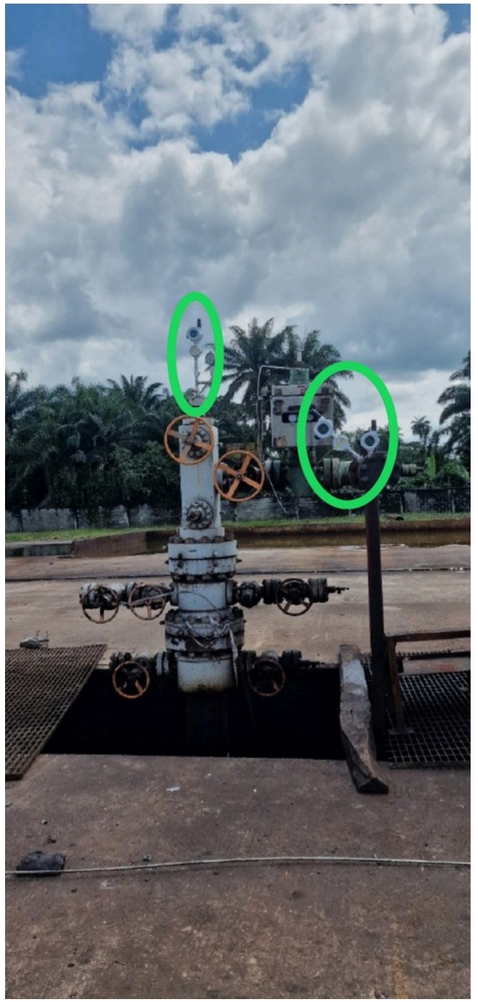
TEMPERATURE MONITORING

FLARESTACK & TEMPERATURE MONITORING

A Thermocouple Transmitter was installed







PRESSURE MONITORING SOLUTION

CASING AND TUBING PRESSURE MONITORING

Each well tree received two Pressure Transmitters, one for casing and the other for tubing pressure





TANK LEVEL MONITORING SOLUTION





TANK LEVEL MONITORING

To monitor both product and interface levels of five 20 ft. storage tanks, five Liquid Level Transmitters with Ultra-flex Sensors were deployed for ease of installation

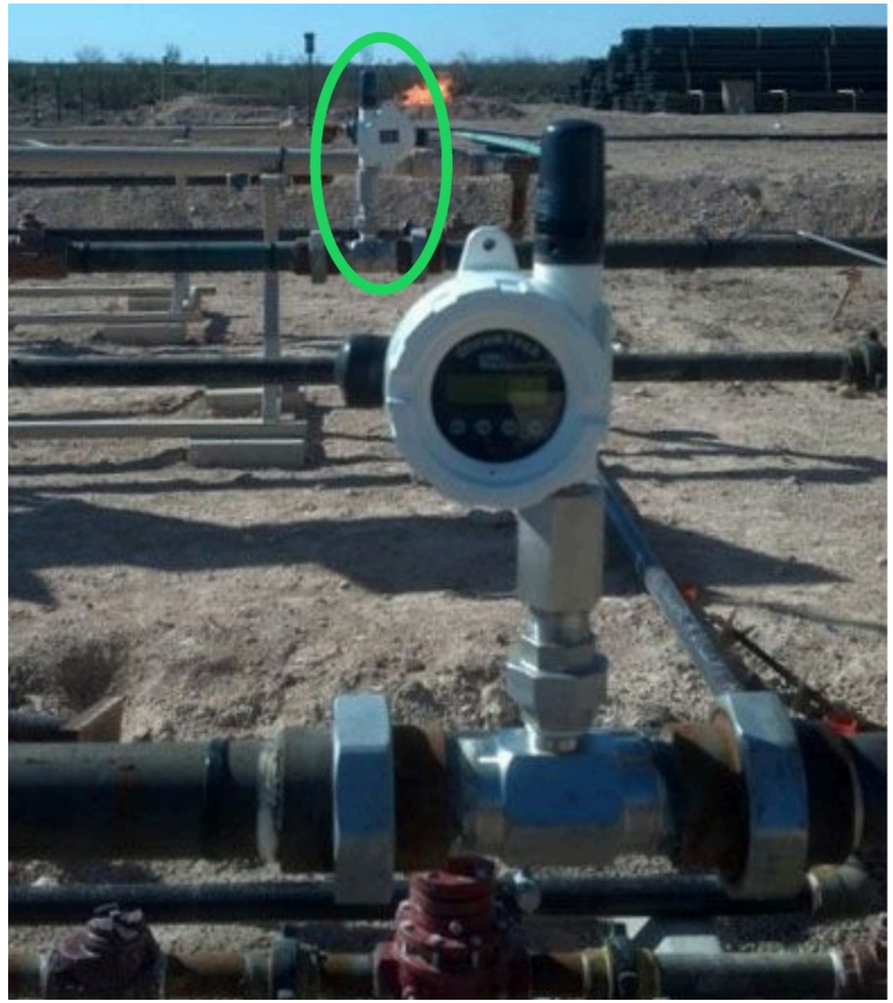


FLOW MONITORING

FLOW RATE & TOTALIZED FLOW

A Flow Totalizer Transmitter was installed to count raw volume, flow rate, today and yesterday's totals





FEATURED SOLUTION

Pipeline monitoring & metering

Improve visibility of pipeline operating conditions and flow data using field instrumentation, secure communications and integration.



- Monitor pressure, temperature and flow variables at selected pipeline points.
- Acquire meter / flow-computer data for operational visibility and reporting.
- Route data through suitable gateways and communications to existing SCADA/HMI or analytics tools.
- Configure thresholds and notifications to support early investigation of abnormal readings.

Scope, instrument compatibility, alarm logic and control actions are confirmed during technical assessment.

Fit into your operational technology environment

A layered architecture supports field acquisition and integration while respecting existing control and cybersecurity requirements.

01 FIELD

Transmitters • meters • tank probes • existing PLC/RTU/flow computer

02 CONNECT

Industrial gateway • protocol conversion • wired / wireless / cellular links

03 INTEGRATE

04 INFORM

Dashboards • trends • event notifications • reports • BI / analytics

Design principles: interoperability • data integrity • fit-for-purpose connectivity • non-interference with control systems

BUSINESS OUTCOMES

Operational value beyond data collection

A clear path from field instrumentation to better-informed decisions.

Earlier awareness

Remote readings and configurable alerts can help teams spot unusual operating conditions.

Less manual checking

Reduce reliance on repeated site visits for readings where remote instrumentation is suitable.

Better measurement visibility

Bring flow, tank and selected meter data into accessible reporting workflows.

Improved maintenance planning

Use historical trends to inform investigation and maintenance priorities.

More connected operations

Integrate new data with existing SCADA, flow computers and business intelligence tools.

Operational accountability

Create a more consistent record of readings, events and fuel movements where supported.

Benefits depend on site conditions, instrument selection, integration scope and operating procedures.

Relevant deployment and integration experience

Examples drawn from the existing Tranter IT Smart Solutions presentation.

Aradel Limited | Wellhead monitoring

120 OleumTech temperature and pressure transmitters installed on wellheads; remote access to readings and analytics / BI visibility. • Port Harcourt, Rivers State

NPDC/Accrete Petroleum | Oilfield digitisation

60 pressure transmitters installed across wellheads and a flow station to support remote readings and analytics visibility. • Oredo Oil Fields, Edo State

NGMC / NNPC | Gas metering integration

Pressure and temperature instrumentation deployed with MDL Analytics integration; separate engagement referenced acquisition of totalized flow data from an RMG EC900 flow computer.

Sterling Oil | Wellhead digitisation

A pressure transmitter deployed at a designated wellhead to support remote pressure visibility and dashboard monitoring. • Beneku Flow Station, Delta State

Pipeline monitoring and metering are presented as solution offerings; the source deck does not identify a completed pipeline-specific deployment.

REFERENCE POINTS OF HARDWARE DEPLOYMENT







Client Name: Aradel Limited
Client problem: The client needed to have a way of accessing pressure readings from their Oil Wells remotely, Visualize the data on an Analytics dashboard, and also port the data to a proprietary Business intelligence Tool.
Work done: 120 Oleumtech Temperature & Pressure transducers/Transmitters were installed on Well Heads.
Location: Port Harcourt, Rivers State, Nigeria.
Project Status: Completed

COMPLETED PROJECTS



BQUBE (STERLING OIL) OIL FIELD DIGITIZATION PROJECT

Client Name: Sterling Oil Exploration & Energy Production
Client Problem: The client needed to have a way of accessing pressure readings from their Oil Wells remotely, and to visualize the data on an Analytics dashboard.
Work done: 1 Oleumtech Pressure Transducer/Transmitter was deployed to a designated Well Head at Client's Oil Well Site.
Location: Beneku Flow Station in Kwale, Delta State, Nigeria.
Project Status: Completed



Client Name: NPDC
Client problem: The client needed to have a way of accessing pressure readings from their Oil Wells remotely, Visualize the data on an Analytics dashboard, and also port the data to a proprietary Business intelligence Tool.
Work done: 60 Oleumtech Pressure transducers/Transmitters were installed on Well Heads and the client's Flow Station.
Location: Oredo Oil Fields, Edo State, Nigeria.
Project Status: Completed

COMPLETED PROJECTS



NGMC GAS METERING SKID AUTOMATION PROJECT [1]

Project 1: Pressure Temperature Sensors/Transmitters Deployment and Platform Integration
Client Name: Nigerian Gas Marketing Company - NNPC
Client Problem: Client needs to have access to Pressure, Temperature and Gas Totalized Flow data remotely.
Work done: We installed Oleumtech Pressure and Temperature Sensors/Transmitters, and then integrated with the Analytics platform
Location: Sonia Foods Industries Limited, Sagamu
Project Status: **Completed**



NGMC GAS METERING SKID AUTOMATION PROJECT [2]

Project 2: Modbus devices deployment/Integration to the RMG EC900 Flow Computer and on the Analytics Platform.
Client Name: Nigerian Gas Marketing Company - NNPC
Client Problem: Acquisition and Wireless Transmission of Totalized Flow information from the existing RMG EC900 Flow Computer.
Work done: Engagement ongoing with the Flow Computer OEM (RMG) on the Modbus device integration
Location: Sonia Foods Industries Limited, Sagamu
Project Status: **Completed**

TRACK RECORD

Our client base is a reflection of the quality and spread of our services across the country. We currently have multiple clients spread across various verticals of Nigerian economy. A pictorial view of our major clients list is presented below:



A structured path from assessment to operational use

Define the right technical scope, integration method and success measures before deployment.

1

Discover

Site survey, operating objectives, asset list and existing-system review.

2

Design

Instrument selection, network / gateway design, data mapping and integration plan.

3

Deploy

Install and commission agreed devices, communications and data interfaces.

4

Validate

Verify readings, data quality, alerts, dashboards and handover documentation.

5

Support

Agree monitoring, maintenance, training and ongoing support arrangements.

Every engagement is scoped around site conditions, hazardous-area requirements, communications availability and existing OT policies.

LET'S DISCUSS YOUR ASSETS

Build a connected view of your operations

Talk to Tranter Smart Solutions about wellhead, pipeline, flow metering, tank monitoring and fuel logistics requirements.

TRANTER IT | SMART SOLUTIONS

From field instrumentation to actionable insight.

Share your monitoring challenge, target assets and existing systems. We can help define a fit-for-purpose solution.

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