

PM ENGINEERING

FUEL AUTOMATION

Tank monitoring. Controlled dispensing.
Fuel-use visibility. Marine fuel transfer.



PME project photograph; fuel-storage context only.

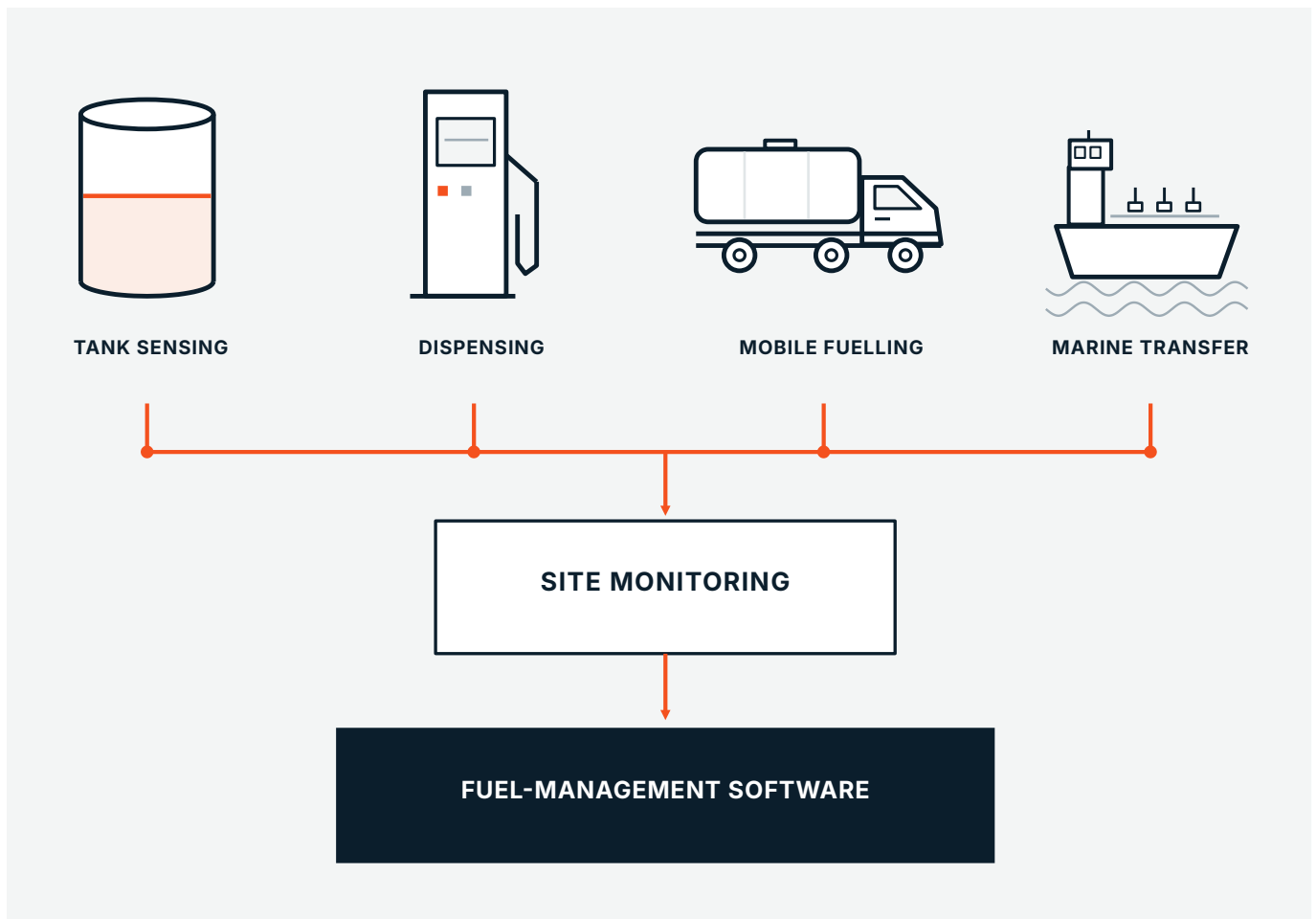
AUTOMATION FOR LAND & MARINE OPERATIONS

Tank gauging / Vehicle identification
Metered refuelling / Central monitoring
Barge-to-tank receiving / Jetty-side vessel dispensing

01 / THE AUTOMATION OVERVIEW

An automation scope built around your operation.

PM Engineering offers fuel-automation packages configured around your site requirements and selected equipment.



Functional overview. Final connections depend on selected equipment and software.

MONITOR

Tank information

CONTROL

Fuel issue

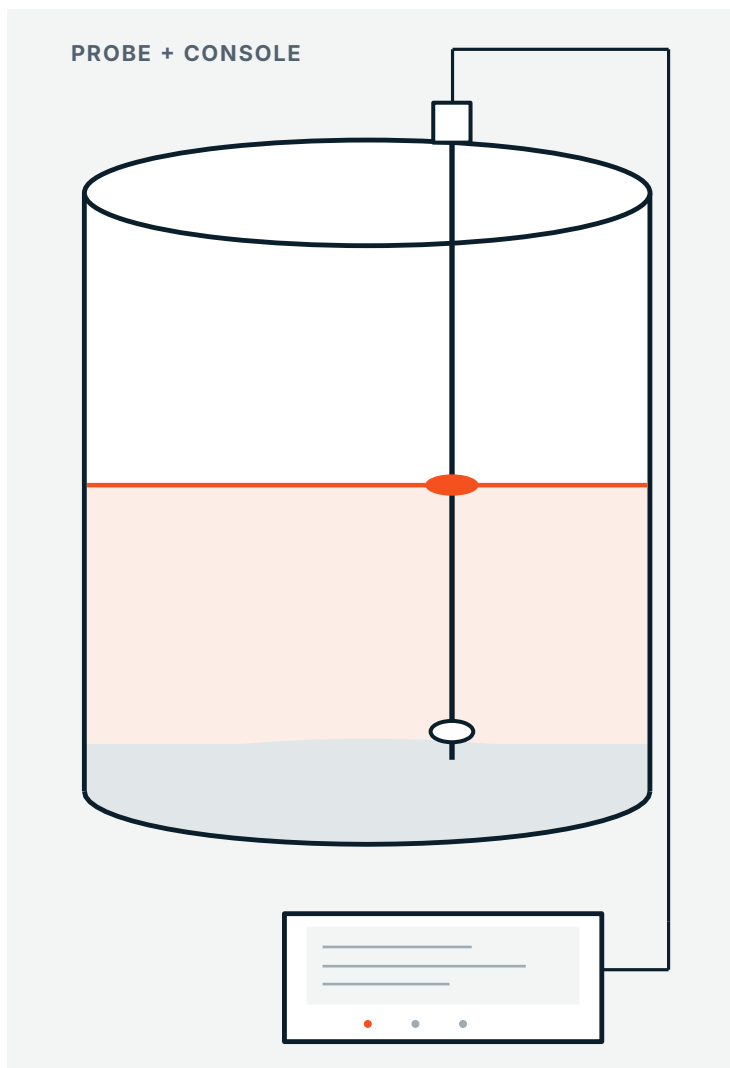
REVIEW

Fuel usage

02 / TANK MONITORING

Tank gauging & condition monitoring.

Automatic tank gauging (ATG)



Functional cross-section

Measurements and sensing options are confirmed at equipment selection.

01 Fuel level

Continuous level monitoring.

02 Water detection

Water in the tank.

03 Temperature

Where supported by the probe.

04 Density

Configuration-dependent sensing.

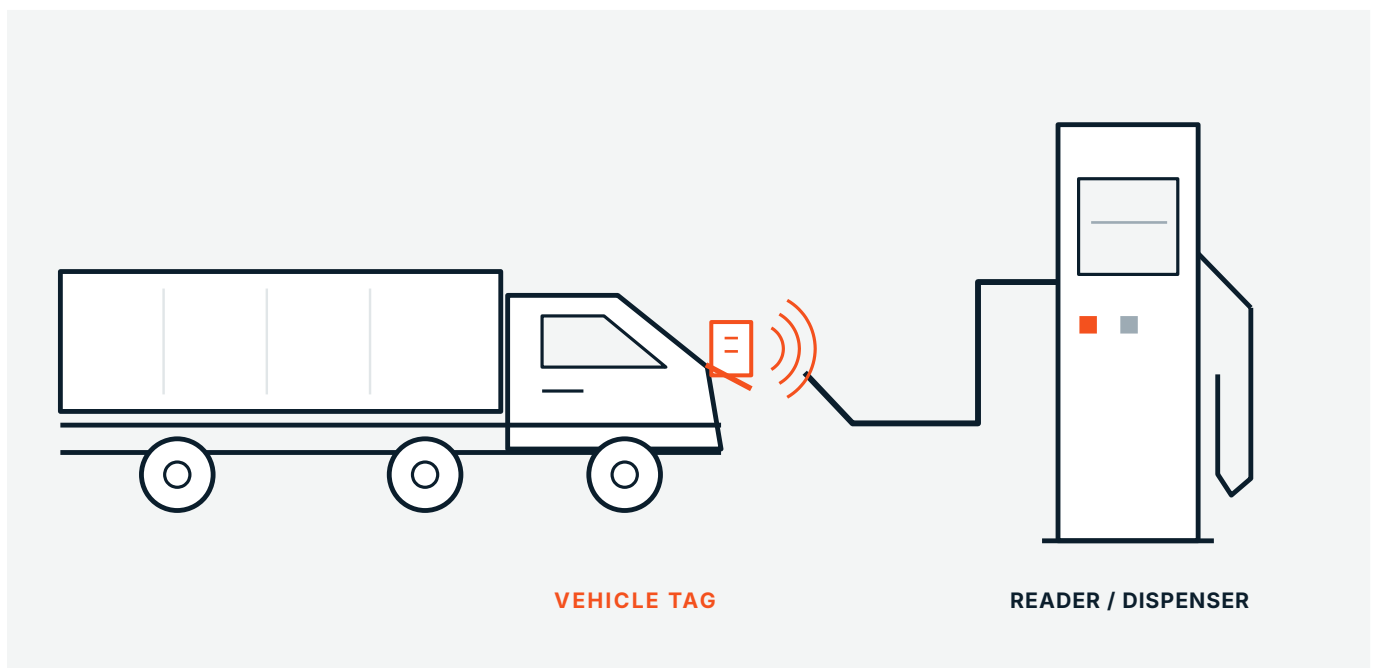
Live monitoring & notifications

Leak detection and alert functions depend on the selected system.

03 / FIXED-STATION AUTOMATION

Identify the vehicle. Control the fuel issue.

RFID-based vehicle identification



Functional illustration; not a site layout.

01

IDENTIFY

An electronic vehicle tag is read at the fuelling point.

02

AUTHORISE

Dispensing is enabled when the configured tag is recognised.

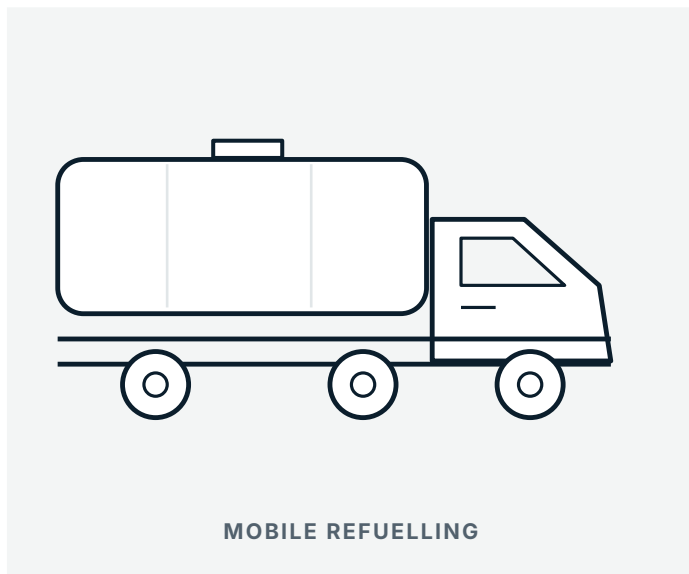
03

REVIEW

Fuel activity is available through the selected management system.

04 / MOBILE & METERED OPERATIONS

Automation beyond the fixed station.



Mobile bowser automation

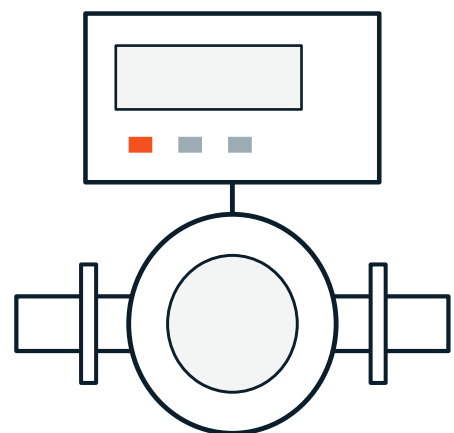
Monitor fuel use during mobile refuelling. Digital metering supports measured delivery to generators, machinery and vehicle fleets.

Volume presets and receipt printing are equipment-dependent options.

Metered loading & electronic registers

Electronic register and flowmeter packages support preset quantities and automated fuelling data.

Metered loading can be specified within the automation package.



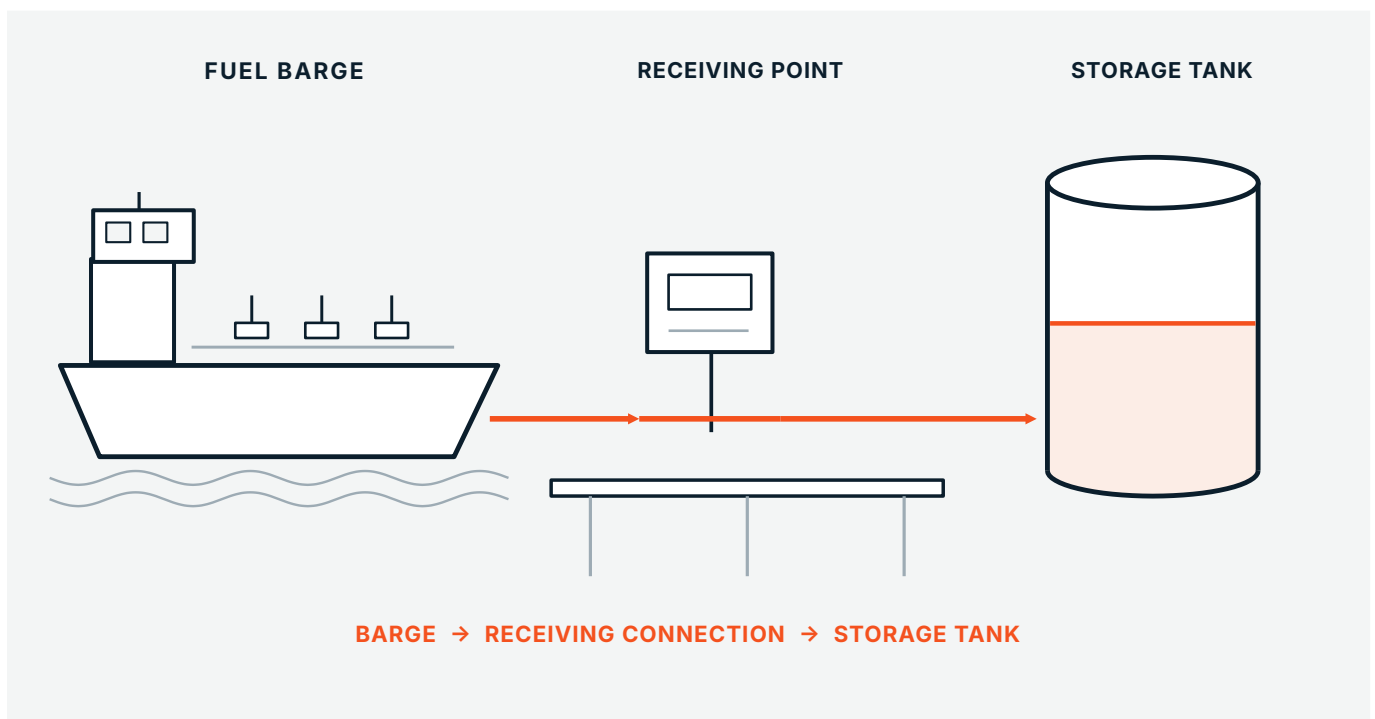
Functional illustrations

Define the metering duty and required transaction record at quotation stage.

05 / MARINE FUEL RECEIVING

Marine fuel receiving. Barge to storage tank.

Fuel receiving from supply barges into storage tanks, provided by PM Engineering for projects in the Maldives.



Transfer direction only; final equipment and controls are project-specific.

01 RECEIVE

Load fuel from the supply barge into the storage tank through the agreed receiving arrangement.

02 MONITOR

Tank-level monitoring and transfer metering can be selected for the receiving package.

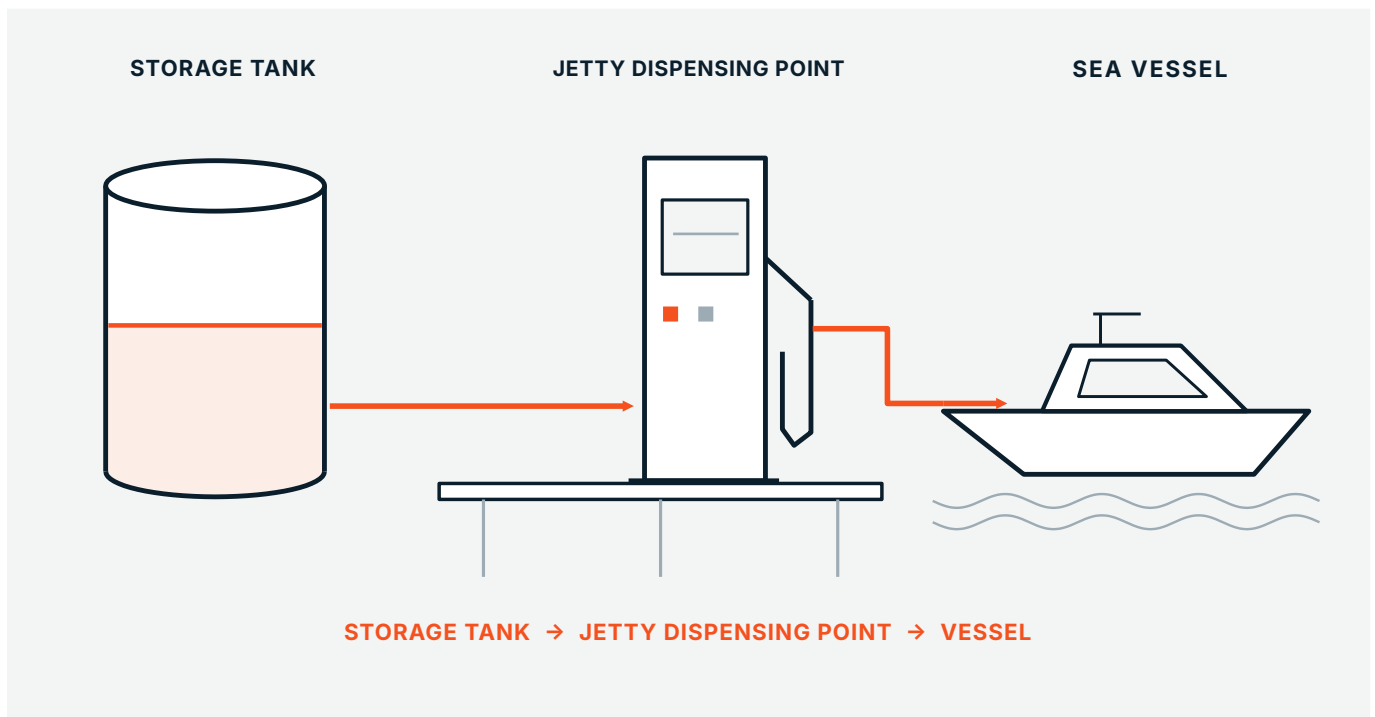
03 DEFINE

Confirm the receiving location, tank connection, metering and control requirements for each project.

06 / JETTY-SIDE VESSEL REFUELLING

From storage tank to vessel at the jetty.

Jetty-side fuel dispensing from storage tanks to sea vessels, provided by PM Engineering in the Maldives.



Functional flow; the dispenser and marine interfaces are defined per project.

01 SUPPLY

Fuel is supplied from the storage tank to the jetty dispensing point.

02 DISPENSE

The vessel is refuelled at the jetty through the agreed dispensing arrangement.

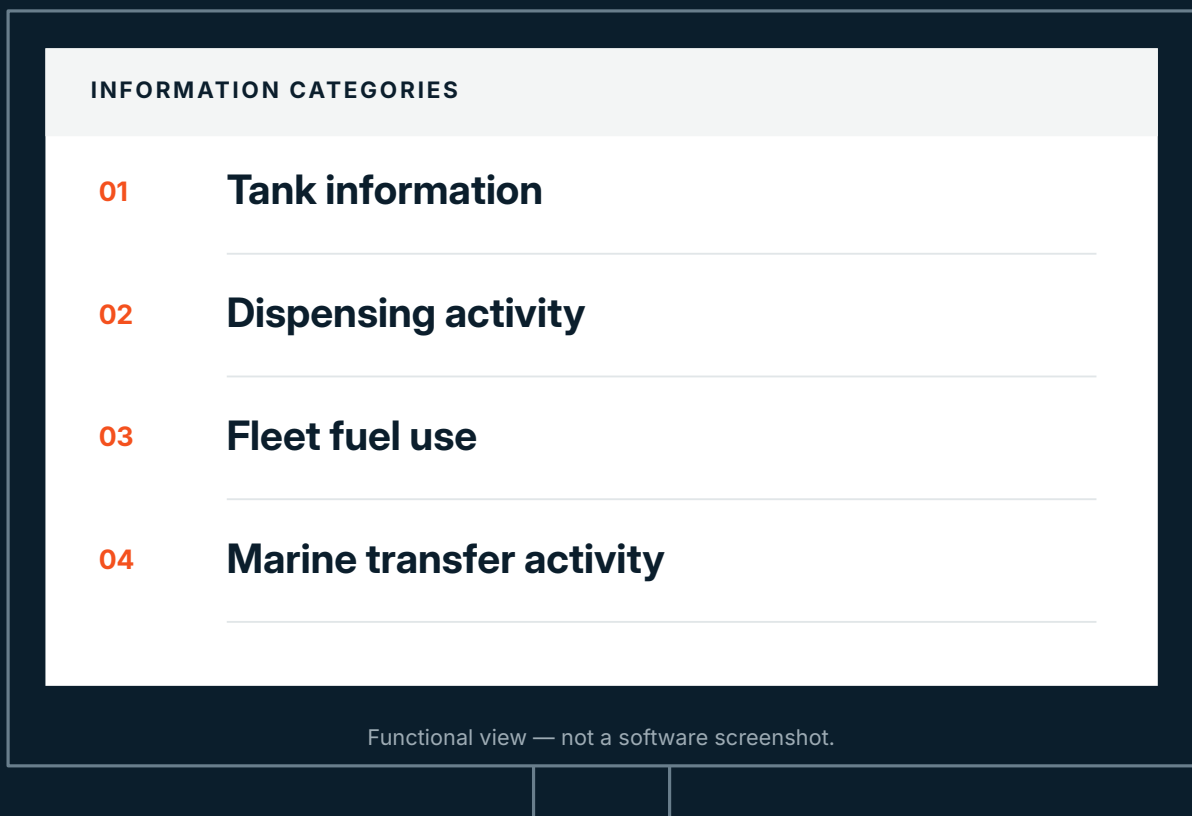
03 RECORD

Metering and transaction-record functions are selected to suit the equipment and software package.

07 / CENTRALISED MONITORING

A clearer view of fuel activity.

Bring tank and fuelling information into the selected fuel-management platform.



Site-level oversight

Central monitoring and fuel-use tracking.

Optional fleet telemetry

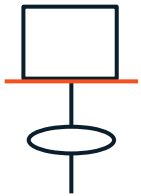
Telematics and geofencing, where supported by the selected fleet package.

Software access, connectivity, licences and reporting requirements are confirmed in the project proposal.

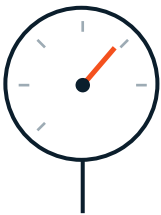
08 / MEASUREMENT & INDICATION

The instruments behind the information.

Select sensing and indication for the approved automation scope.

**LEVEL**

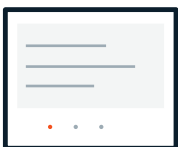
Float and vibrating-fork switches; capacitance, hydrostatic and ultrasonic transmitters.

**PRESSURE**

Pressure and differential-pressure switches and transmitters.

**TEMPERATURE**

RTD sensors, thermocouples and temperature scanners.

**INDICATION & CONTROL**

Process indicators and controllers; alarm indication where configured.

EQUIPMENT-SPECIFIC INTERFACES

Signal options must be checked against the receiving controller.

09 / DEFINE YOUR AUTOMATION SCOPE

Start with the right requirements.

01 Tank list & monitoring

Fuel and tank details; required measurements and alerts.

02 Fuelling points & vehicles

Fixed or mobile operation; equipment and identification needs.

03 Marine receiving & jetty points

Barge receiving location, vessel fuelling points and transfer route.

04 Control & software

Existing interfaces, connectivity and data-access expectations.

PROJECT-SPECIFIC EQUIPMENT SELECTION

Makes, models, licensed functions, interfaces and approvals are confirmed in the technical proposal. Alternative equipment is subject to compatibility review — not assumed to be interchangeable.