

Revamping of custody transfer metering units

For liquids and gases



Flow computers

Measuring systems

Remote Terminal Unit

Supervisory system

Metering units renovation and up-grading extend the life of the existing installation while improving performance levels, bringing them into line with changes of operating conditions and providing a response to new regulation requirements. The comprehensive range offered by MECI provides solutions in terms of expertise, engineering, project management and commissioning.

A comprehensive offer

MECI is certified for the manufacturing, commissioning, periodic field verification and repair of custody transfer metering units. We provide a comprehensive revamping offer for a total compliance of your measuring system with the Weight and Measures regulations. A project engineer will manage your entire project from order to field acceptance tests.

Global audit and solution design

- MECI experts have a proven diagnostic methodology.
- Document and regulation audits.
- On-site audits.
- Analysis of existing metering installations and solution design.
- Study of the solution on the basis of currently applicable regulations.
- Selection of measurement technologies.
- Selection of approved suppliers and subcontractors.

Incorporating the modification

The metering unit

- Inspection and factory acceptance of the metrology components.
- Operating trials according to clients' specifications.
- Management and monitoring of subcontractors.
- Mechanical and electrical modifications to installations.
- Supply and installation of approved metering components.

Metrology folders

- Study of the compliance of the metering system with the new regulations.
- Compliance with standards, metrology regulations and technical specifications.
- Validation of compliance folders by local Weight and Measures authorities

Automation and supervisory system

- Development of supervisory solutions dedicated to your metering application.
- Interface designed to ensure full interoperability with existing DCS.

Commissioning

- A qualified and experienced team for on-site inspections, acceptance tests and unit's start-up.
- On-site testing.
- Verification of metrology conformity.
- Accuracy tests.
- Sealing of metrological elements.
- MECI assists the operator upon taking over of new installation.
- Providing operating instructions.
- Operating team training.
- Starting up the new installation under local team control.

Maintaining the installation

- The MECI customer service department provides the user with a range of services designed to optimise the operation of the installation.
- "Hotline" assistance.
- Repair personnel covered by Quality Assurance.
- Maintenance Contracts.
- Programmes of preventive maintenance and periodic verifications.

**Truly improved performances:
a fast return on investment**

Technical data - Revamping of custody transfer metering units

Model		For liquids et gases
Measuring systems	Applications	Offshore (FPSO, FSO) and Onshore oil production Oil depots (truck, ship and rail car loading) Refineries, Storage facilities Pipeline metering Methane terminals Energy metering
	Measured fluids	Crude oil Refined products (fuels, bio fuels) Alcohol Liquefied gases (LPG, Ethylene) Natural gas Air gases
	Instrumentation	Pressure and temperature probes, densitometers Samplers Analysers : chromatography, dew point analysis, product identification
	Flowmeters	All manufacturers Coriolis mass flowmeters Turbine meters PD meters Ultrasonic flow meters Differential pressure devices (for gas)
	Supervisory and automation system	Supervisory of flow computing, calibration and prover management
Reference standards	Liquids	API MPMS, OIML R117, OIML R22
	Gases	AGA 3, AGA 8, AGA 9, ISO 5167, GERG 88, OIML R 140, EN 12 405
Certifications	Company	ISO 9001 version 2015
	Metrology	Measuring instruments certified for transactional use: measuring system for liquids other than water, gas volume conversion device, gas quality, volumetric flow meter etc. Directive MID 2004/22/CE - Fabricant under quality assurance Module D (approbation LNE)
	ATEX [Explosive Environments]	94 / 9 / CE Directive Manufacturer covered by Quality Assurance (LCIE notification)
	DESP	97/23/CE – Pressure Equipment
	On-site verification	COFRAC N°3-1458 certification covering activities
	Safety	Electrical and Chemical Work Authorizations
Means	Personnel	A team of qualified and experienced engineers in the field of legal metrology Personnel authorised to operate on petrochemical sites and at oil depots
	Calibration tools	More than 100 measurement standards linked to French nationals standards Dedicated measurement standards Measurement standards: volume, mass, pressure, temperature, density, viscosity Possibility to operate calibration tools available on the field
Covered Territory		Worldwide MECI personnel authorized to perform operations in a large number of countries Local support provided by a network of agents

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Headquarters and Manufacturing facility

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