



Fiscal Measurement Solutions

Custody transfer is an integral part of the Diamond Key International 'Total Solutions' package. The high accuracy, high reliability systems DKI provide exceed the performance demanded by our clients.

Whether it be a single positive displacement meter measuring refined product or crude oil, road, rail and ship loading applications incorporating many meters, or large multi stream high pressure gas metering, Diamond Key has the expertise to deliver a complete package, on time and within budget.

Success in systems integration relies on close control and management of the mechanical and electrical interfaces both inside and outside the package. Fiscal transfer quality measurement engineering requires the multi-discipline skills of process, electrical and mechanical project management which DKI provides as standard, ensuring a single point of contact for our customers.

DKI provide for online assessment of gas quality and our packages routinely incorporate analyser houses for this critical equipment. Air conditioned or freely ventilated, these may include chromatographs, H₂S analysers, water in gas monitors, hydrocarbon dew point monitors, automatic sampling and relative density.

Additionally DKI supplies the related flow computation systems with communications, reporting and Human Interface capabilities to the client's requirements and meeting the specific requirements of the gas sales contract.

Utilising primary elements and other items supplied by our alliance partner, FMC Technologies, DKI is able to offer leading edge technology metering solutions.

Ultrasonic Meters

The FMC Kongsberg MPU 1200 6 path ultrasonic flow meter is the leading ultrasonic meter available today. Very high accuracy's and exceptional reliability are its strengths.

DKI can design and fabricate a system incorporating all the required analytical componentry together with advanced reporting and status monitoring.

Multi-phase and wet gas metering

Wet gas metering can be considered a 'special case' of the more general multiphase metering. DKI supply both ultrasonic and venturi meters suitable for this demanding service. The primary elements from FMC are the latest designs available offering exceptional performance at very competitive pricing.

Mass metering

For some applications, coriolis mass-meters offer a technical solution for metering of difficult fluids. Oils with high viscosity and solids content can harm more traditional meters and fiscal accuracy is achievable with careful system design. DKI has extensive experience with coriolis metering of difficult products such as LPG and bitumen.

Differential metering

DKI has fabricated some large differential metering systems, typically incorporating the FMC Peco range of orifice meters. These are available as single or dual chamber in a wide range of sizes and materials. As with all systems the skid can be supplied as a complete turnkey package.

Loop and small volume provers

Provers of all types and sizes, stationary or portable. DKI can draw on the unrivalled expertise of FMC systems division, one of the world's largest manufacturers of these systems.

Turbine and PD meters

Gas and liquid turbine meter systems from small capacity single run to large multi run liquid or gas turbine systems, fully integrated incorporating analytical and computational components. PD meter systems utilising the world class FMC Smith PD meters supplied with full electronics stream switching capabilities and API corrections for fiscal applications.



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