



SKID M

MULTIPHASIC METERING SYSTEM



FUNCTIONALITY

The only **plug and play** triphasic metering system that measures **accurately** and in **real-time** oil, water and gas flow **without** gamma source and **without** separation of phases.

It is designed with several Coriolis MASS FLOWMETER YOKOGAWA ROTAMASS TI in parallel, a pressure transmitter and a touch screen flow computer HMI.

It can work with BSW from 0 to 100% and GVF from 0 to 99.7%.

Ideal system for wells between 1" and 6"

Temperature: -30/+70°C amb. -40/+120°C process

Pressure: up to 250 bar, depending flange rating

Flow range: up to 30 000 bbl/d and 200MMSCFD depending on GVF and pressure, please refer to the General Specifications of SKIDM

ATEX and NACE compliant

Communication: modbus TCP / analog outputs / WIFI for remote control (PC, tablet) / embedded datalog & report function

EQUIPMENT ON THE SKIDM

Flowmeters: Coriolis Rotamass TI Supreme/Intense RCx34 or RCx36 or RCx38, depending on application

BSW: Coriolis Rotamass TI Supreme/Intense RCx34

Pressure: EJX530A

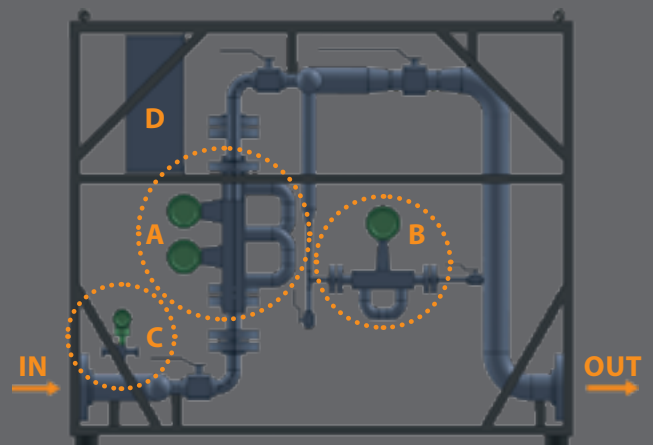
Temperature: from Coriolis

Flow computer / HMI Atex zone 2

Sample point

OPERATING PRINCIPALS

At first, the inline pressure transmitter (C) will measure the process pressure. Then the total fluid will flow through the metering lines equipped with Coriolis flowmeters (A) and it will measure the volume flow, the density and the temperature of the mix.



In the by-pass line equipped with the small Coriolis (B) it will measure the liquid density and this is called the water cut line.



On the flow computer we will calculate GVF, GOR, WATER CUT, MASS OR VOLUME FLOW OF GAS, WATER AND OIL.





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FLOW LOOP CALIBRATION BENCH

Every SKID M is calibrated in our 3-phase calibration bench in France with individual Coriolis reference flowmeters using water, diesel and compressed air.

Our flow loop calibration bench permits us to simulate flow conditions and test the performance of each SKID M after the calibration and have our clients as witnesses.



APPLICATION

- Offshore and onshore production well testing,
- Production monitoring,
- Production allocation,
- Reservoir monitoring,
- Detect any problem with pump wells,
- Determine the eruptivity with gas and/or liquid.

INNOVATIVE DESIGN

The SKID M is designed in a compact skid device offering small foot print for OFFSHORE or ONSHORE wells.

EASY MOBILITY + EASY SET-UP = MANY WELL TESTS PER DAY

ACCURACY

From GVF 0% to 99.0%

Oil, Water and Gas phases: +/- 2 % reading + 1% Full Scale with 95% confidence

From GVF 99.0% to 99.7%

Oil, Water and Gas phases: +/- 5 % reading + 2% Full Scale with 95% confidence

Above GVF 99.7%

Oil, Water and Gas phases: not guaranteed

BENEFITS

- Accurate and real time measurements
- High GVF(0 to 99.7%) and BSW (0 to 100%) ranges
- Light and small foot print
- Easy to operate
- Environmentally friendly, no hazmat
- LOW CAPEX/OPEX INVESTMENT

