

Well Flow Management

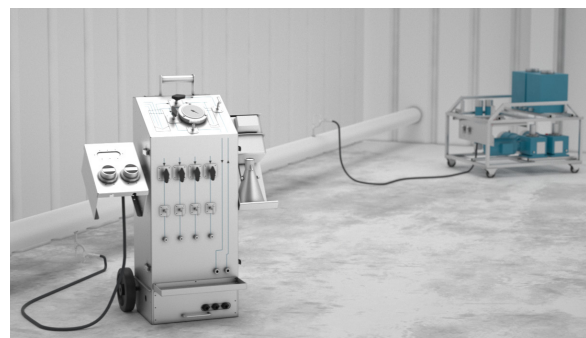
Flow Surveillance

MultiTrace™

MultiTrace™ is a nonintrusive and portable tracer dilution measurement that can provide a direct and accurate measurement of water, oil/condensate and gas at line and standard conditions.

A small concentration of environmentally friendly and nonradioactive tracers are selectively injected into the gas, water, oil or condensate phases in the production stream at a precisely metered rate. A sample of the produced fluids is then taken downstream of the injection point utilizing a temperature controlled equilibrium multiphase sampling vessel (MiniSeparator). The actual production rate is calculated from the dilution factor of the tracer in the collected sample.

Compositional data analysis or any other fluid analysis studies can be performed using the representative multiphase fluid samples collected in the Mini-Separator.



Applications

- Wet gas meter verification and calibration with liquid fraction measurement
- MPFM field calibration and verification
- Utilized alongside Expro's SONAR meters to provide a non-intrusive multiphase metering solution (QPulse)

Features and benefits

- Portable and non-intrusive testing solution
- Direct measurement of the liquid rates < 5 bbls/D
- Non-radioactive and environmentally friendly
- Wide turn-down ratio
- In-situ calibration with different tracer injection and concentration
- Compositional data analysis/other analysis such as CO₂/H₂S/ Mercury can be provided if required

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MultiTrace Liquid Tracer Pump

Technical specifications	
Max working pressure	206 barg
Temperature range pump head	-20/150°C
Temperature range hydraulic/gear oil	0/100°C
Ex zone	1
Power type	3 phase
Voltage	230/400 V (Δ/Y)
Current	3,4/1.9 A (Δ/Y)
Herz	50Hz (for 60Hz change motor)
Dimension	W85xH70xD70cm
Weight	130 kg
Reservoir	2 x 20 L
Liquid tracer pump	
Tracer type	Oil and water
Operational data	
Injection rate	4-14.4 L/hr

MultiTrace Mini Separator

Technical specifications	
Design P	100-345 bar
Design T	up to 110°C
Power requirements	230vac / 50hz / 230W
Material	Duplex or Inconel (Sour environment)
Weight / Dimension	110Kg / 108x55x43 cm
Certification	ex Zone II

ATEX heat traced and insulated mini-separator, thermostat controlled.
Maximum operational P&T depends also on the design of the sampling point.

Note: For more information contact your local Expro representative or email flow.surveillance@expro.com