

# Well Flow Management

## Fluids Sampling and Analysis

### Composer™

**Composer™ consists of a portable Micro Separator that operates at controlled pressure and temperature enabling live measurement of gas and liquid densities, GOR2, and shrinkage factor.**

Composer™ enables real-time updates of the PVT property inputs to the Multiphase Flow Meter (MPFM) flow computer increasing flow measurement reliability and accuracy.

#### Applications

- Validation of permanently installed MPFMs
- Support existing MPFM ad-hoc operations by providing Inline fluid properties
- Enables onsite PVT sampling

#### Features and Benefits

- PVT samples collected at flowline pressure and temperature
- Inbuilt fluid property measurement- gas/liquid density, shrinkage factor, and GOR2
- Portable and small footprint solution
- Optional Mist Extractor ensures liquid sample collection even in lean gas/low LGR wells
- Contained measurement system minimizes exposure and atmospheric release



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#### Micro Separator

Technical specifications	
Separator material	UNS N09945 and UNS N06625
Length (H x W x L in cm)	81x53x75 (L include thermobox)
Weight	100 kg
Max Working Pressure	5000 psi / 345 bar
Volume pressure vessel	930cc (60cc sensor chamber)
Max Working Temperature	-17 to 150 °C
Temperature controller power	230VAC 50/60Hz single phase
Pressure relief valve	5000 psi / 345 bar
Code standards applied	ASME sec. VIII div. 2, 2023
Micro separator Ex Zone	Zone 1 (Atex)
Expro reference	MS-60692-01
Fittings and valve material	SS316 Swagelok NACE MR0175
Density sensor certification	II 1 G Ex ia IIC T3 Ga (Atex)
Pressure sensor certification	II 1 G Ex ia IIC T5 Ga (Atex)

#### DAQ

Technical specifications	
Length (H x W x L in cm)	72x65x98
Weight	80 kg
Temperature controller	230VAC 50/60Hz single phase
DAQ Ex Zone	Atex zone 1
Expro reference	DAQ-N-18 / DAQ-02
Tablet certification	Ex ia IIB T4 Ga (IECEX and Atex)

#### Mist Extractor (Optional for lean gas condensate)

Technical specifications	
Separator material	UNS N09945 and UNS N06625
Length (H x W x L in cm)	75x55x68 (L include thermobox)
Weight	92 kg
Volume pressure vessel	950cc
Max Working Pressure	5000 psi / 345 bar
Max Working Temperature	-17 to 150 °C
Temperature controller power	230VAC 50/60Hz single phase
Pressure relief valve	5000 psi / 345 bar
Code standards applied	ASME sec. VIII div. 2, 2023
Mist Extractor Ex Zone	Zone 1(Atex)
Expro Reference	MS-60692-02
Fittings and valve material	SS316 Swagelok NACE MR0175

Note: Other sizes and configurations are available to meet most applications, for more information contact your local Expro representative or email [fluids@expro.com](mailto:fluids@expro.com)