



## COMPACT WELL TESTING SOLUTION FOR UNMANNED PLATFORM IN INDIA

### Customer

An operator in India

### Application

Well testing in multiphase flow conditions

### Challenge

An operator in India has an offshore oilfield that has seen decline in production, leading to a redevelopment plan.

The operator wished to develop an effective and reliable well testing system that would optimize production, provide real-time operational data and could be accessed remotely, as this is an unmanned platform.

The operator wanted to limit weight and space use, due to restraints in these areas. Limiting power consumption was also in focus, as most of the power required for their unmanned platforms is provided by solar panels.

### Solution

Emerson provided a solution that consists of the Roxar™ 2600 Multiphase Flow Meter (MPFM), and the Fisher™ Multiport Flow Selector (MPFS). The MPFS supports up to 7 well inlet lines and allows the diversion of fluids from a single well line into a test outlet, with the flow from the remaining inlets flowing to a common group outlet line. The Roxar 2600 MPFM is installed on the test line, performing multiphase flow measurement of the individual well being diverted through the test outlet.

The Emerson solution is significantly more compact and lightweight than a traditional manifold and test separator arrangement. Rotating the wells being diverted to the test line is fully operable from a remote location, so no presence on the platform is required for smooth operations. The Roxar 2600 MPFM provides all the measurement data required, on a rotational well testing basis, without the need for phase separation. The data provided

### Results

- Robust, accurate and reliable rotational well testing measurement achieved
- Measurement solution fully operable from a remote location
- Compact and lightweight solution provided



*Image 1. The Roxar 2600 Multiphase Flow Meter*

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is real-time and high resolution, arming the operator with the information they require to optimize production. Power consumption is low, and fully supported with solar panel energy sources.

The Emerson solution provides the operator with a highly automated, intelligent, and integrated solution with long-lasting components and minimal maintenance requirements.

## Resources

Multiphase Flow Measurement

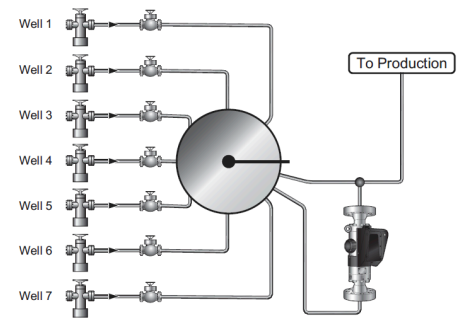
[Emerson.com/RoxarMultiphaseFlowMeasurement](https://emerson.com/roxar/multiphase-flow-measurement)

Roxar 2600 Multiphase Flow Meter

[Emerson.com/Roxar2600MPFM](https://emerson.com/roxar/2600-multiphase-flow-meter)

Fisher Multiport Valve Assembly

[Emerson.com/fishermultiport](https://emerson.com/fisher-multiport-valve-assembly)



**Image 2.** 7 wells routed through the Fisher Multiport Flow Selector, with measurement provided by the Roxar 2600 Multiphase Flow Meter



**Image 3.** Manifold and Fisher Multiport Flow Selector (MPFS)

For more information, visit

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