



RC5 Rocking Cell

Hydrates



Measurement Category	Hydrates
Measurement Target	Test of the effectiveness and mode of action of kinetic gas hydrate inhibitors
Sample Materials	Water, Gas, Oil (Hydrocarbon), Inhibitors
Pressure Range	Up to 200 bar (individually adjustable)
Temperature Range	-10 to +60 °C (Extension to -20 °C available)
Sample Quantity	40 cm ³ per test cell
Repeatability	Best generally available measuring principle
Dimensions	66 x 52 x 33 cm (without thermostat)
Weight	approx. 40 kg (without thermostat)
Supply	Test gas and compressed air supply
Price Range	
Special Features	<ul style="list-style-type: none">▪ Best generally available measuring principle (for KHI, HET)▪ Strong mixing simulates pipeline conditions▪ Variable test conditions (e.g. tilt angle, tilt frequency, temperature)▪ Compact and automated▪ Easy to fill and clean▪ Long-term experiments up to 30 Days



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Basic requirements
Situation (s)

- Testing of kinetical inhibitors KHI or thermodynamic inhibitors TDI
- Test for hydrate equilibrium temperature HET
- No visibility in test cells required (necessary for anti-agglomerants AA)
- Current setup has not enough cells

Requirement criteria

- What oilfield chemicals do you sell? (good: hydrate inhibitors)
- Are you developing hydrate inhibitors? (good: Yes)
- Do you do screening? (good: Yes | bad: No)
- Which inhibitors do you measure?
(good: KHI, TDI, HET | bad: AA --> RCS/GHA)
- Do you need a visual inspection?
(good: Pressure drop is enough | bad: Yes --> RCS)
- How many tests do you run per day?
- How many tests would you like to run per day?
(good: GAP between ACTUAL and SET: factor approx. 2-3)
- Cheap device necessary for hydrate tests



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Optional add-on products (Up-selling)

Extended physics. Properties	Hastelloy
Software	Included
More measuring stations	
Maintenance	✓
Additional Features	T-Sensor
Spare parts (if required)	✓
Documents for customs	✓
Customizing	✓
Service	✓
Training	✓

Optional by-products (cross-selling)

Calibration Set	
Test measurement	✓
Chiller	mandatory
Gas-Booster	✗
PC	mandatory
Other	Vacuum pump



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Reason for purchase 1	Money: You get the cheapest industrial hydrate testing instrument for KHI, TDI, HET.
Reason for purchase 2	Safety: You ensure the highest possible measuring accuracy in the KHI and HET range. This is also confirmed by Prof. Malcom Kelland (University of Stavanger) in his publication on the measuring accuracy of the RC5.
Reason for purchase 3	Time / money: You save time and money in the project because you have more measuring stations (in less space) and the sample throughput (measurements / time) increases.
Reason for purchase 4	Comfort: With the software you can variably set all test conditions in advance by means of a script (e.g. tilt angle, tilt frequency, duration of test phases), so that you can start an automated test at the push of a button. This allows you to examine complex test sequences in a single test run.
Reason for purchase 5	Convenience: You operate your measuring instruments conveniently and simply because the test sequence is automated via the software after setup.
Reason for purchase 6	Safety: Make sure you include sour gas in your tests because you can upgrade the meter to H ₂ S compatibility.



For all devices

Step 1	Step 2
<p>In the first step after our discussion, you will receive a quotation for the system with various variants and options. On this basis, you can initiate an internal budget discussion and use secure arguments.</p>	<p>In the second step, you discuss the requirements and the available budget internally with your colleagues. We support you with our advice and helpful documents.</p>
Step 3	Step 4
<p>In the third step we evaluate the quotation with you - based on your internal requirements - and compile the variants and variables as you need them for your application. On this basis you can make a well-founded decision.</p>	<p>If we are perceived as your best alternative, we would be pleased to receive your order. Afterwards we will deal with the details of production, delivery and commissioning. Also, we will send you the order confirmation with the 1st invoice (70 % advance payment) and set an expected delivery date.</p>
Step 5	Step 6
<p>1 month before delivery you will receive the 2nd invoice (30 %). After receipt of payment, we will send the system to you.</p>	<p>In the sixth step, we accompany the commissioning and train your staff. Four weeks after commissioning, we arrange a telephone feedback discussion with you and clarify questions and previous experience.</p>

