

# Canadian Oil Company Saves Nearly \$17,000 Annually with Direct Mount Pressure Transmitter

## RESULTS

- Estimated savings of nearly \$500 per measurement point
- Material savings of over \$106 in instrument piping costs per transmitter
- Labor savings of over \$364 per transmitter



## APPLICATION

Hydraulic lines on large valve actuators

## CUSTOMER

Large producer of crude oil from oil sands in Canada

## CHALLENGE

The first stage of their Upgrader Expansion (UE1) project included installing a third fluid coker, which is used to 'crack' bitumen molecules into lighter oils and gases. The UE1 project will increase the oil company's capacity by an additional 95,000 barrels a day with a 2005 total production goal of 360,000 barrels a day.

When the oil company began working on the UE1 project for bitumen processing, they quickly realized that they would need a compact, high-pressure transmitter to control the supply pressure on the hydraulic actuator lines. The 36" sliding gate control valves were so large that there wasn't space to direct-mount a traditional pressure transmitter. Typical compact transducers/transmitters provided neither the intrinsic safety approvals nor the reliability that were necessary for the classified areas found in a bitumen processing plant.

Since there was no room around the actuator to direct-mount a traditional pressure transmitter, they believed the only way to complete the installation was to remote-mount the transmitters using impulse piping, brackets, and other mounting hardware.

*The Rosemount 4600 compact, high pressure transmitter provides best-in-class reliability and is available with the approvals necessary to be installed in classified areas.*



Rosemount 4600

**ROSEMOUNT**

For more information:  
[www.rosemount.com](http://www.rosemount.com)

  
**EMERSON**  
Process Management

**SOLUTION**

The Emerson local sales representative quickly introduced the Rosemount 4600 Oil & Gas Panel Transmitter when he learned of his customer's problem. Not only did the 4600 allow the customer to use a direct-mount method of installation in his space-constrained application, it provided the approvals required to allow an intrinsically-safe installation without expensive conduit runs.

The Canadian oil company estimated that they saved an estimated \$500 per measurement point by using the 4600 over a traditional industrial pressure transmitter:

- Material savings of over \$106 in instrument piping costs per transmitter
- Labor savings of over \$364 per transmitter

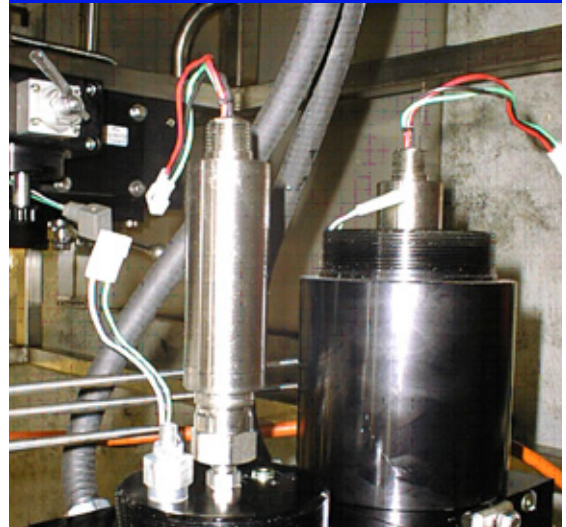
This amounted to a total installed cost savings of nearly \$17,000 for their company.

**RESOURCES**

**Rosemount 4600 Oil & Gas Panel Transmitter**

<http://www.emersonprocess.com/rosemount/products/pressure/m4600.html>

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