Gas nomination
XSeries and XCORE applications

The nomination of natural gas (delivery of a specified volume over a defined period of time) is often a requirement for gas sales.

Measurement made easy

Automation objective

The nomination of natural gas (delivery of a specified volume over a defined period of time) is often a requirement for gas sales. Over deliveries and under deliveries usually invoke contract penalties and a loss of revenue. It is possible to achieve exact nomination deliveries when accurate flow measurement and reliable valve control are combined.
### Automation solution

The Totalflow XSeries flow computers, XSeries remote controllers, and XCore remote controllers are available with a Nomination Application. The Nomination Application continuously inputs set points to the Totalflow Valve Control Application to position the control valve to maintain a flow rate that will result in delivery of the nominated volume.

If flow is interrupted for any reason (a compressor goes off line or a delivery station must be shut-in), the Nomination Application will automatically operate to make up the nomination loss when flow resumes. Additionally, an override function can be selected which will limit a secondary parameter to a user defined limit.

For example, while primarily maintaining flow rate, a pressure override can be used to ensure pressure entering a pipeline system. At a wellhead this same scheme can be used to shut-in/bring-on flow based on a compressor on-off state. Three nomination volume periods can be viewed: Last, Current or Next. All nomination control functions, as well as nomination volumes can be accessed locally with Totalflow PCCU software or remotely with Totalflow WinCCU software or SCADAvantage™. The valve controller has the option to be used with a digital valve actuator or an analog valve actuator.

### Solution benefits

**Nominations made, revenues maximized**
Nomination control insures that all of the contracted volume is delivered.

**Safe environment**
Control override prevents unsafe delivery of pressures and flow rates into the gas system.

**Easy installation**
Mount XSeries/XCore; connect solar panel; connect wiring to sales valve.

**Simple start-up**
Enter initialization requirements with PCCU software or WinCCU software or SCADAvantage™.

**Low power electronics**
Helps extend battery life, reduces maintenance expense, allows for more run time.

**Extendable**
Any XSeries/XCore product can also provide flow measurement, alarming, data logging, level measurement, remote communications, and plunger optimization while performing nomination control.

### Recommended equipment

Qty 1 – XSeries FCU/RTU or XCore RTU with solar panel
Qty 1 – PCCU Laptop communication software

Options – Radio for remote communications; WinCCU remote host software