

# What's New?



## Realflo 7.02 Flow Computer for SCADAPack Smart RTUs

**Realflo™ Flow Computer** is a software solution that works in tandem with SCADAPack™ Smart RTUs to provide gas and liquid flow measurement for well test, allocation measurement, production optimization, and well pad control.

Realflo 7.02 introduces support for AGA-9 gas flow calculation for ultrasonic meters and the AGA-8 (2017) density calculation.

Ultrasonic flow meters measure the velocity of the fluid flowing through a pipe; the benefits of ultrasonic meters include the ability to measure flow in pipes with diameters greater than 6 inches, and measurement that is not affected by changes in fluid composition or flow anomalies. <sup>1</sup>

The flow computer now supports AGA-8 Detail (2017), AGA-8 GERG (2017), and AGA-8 Detail (1994) density calculations. The addition of AGA-8 (2017) part 2 increases the range of density calculations to include a significantly greater range of flowing conditions and fluid compositions.

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The enhanced predication of fluid state provided by AGA-8 (2017) part 2 can be used to increase the accuracy of flow measurement.

### Key Benefits

- Powerful and easy-to-use environment for configuration, diagnostics, and field capture of flow data
- Calibration and configuration wizards make setup, field calibration, and verification easy and effective
- API 21.1 and 21.2-compliant audit trails and flow calculations facilitate data capture and reporting
- Multi-variable sensor/transmitters provide high-accuracy measurements directly to the flow computer
- Support for the latest generation of SCADAPack Smart RTUs

## Unique Value Propositions

### Support for 10 flow runs of any type

- Simplifies flow run licensing choices
- Gas transmission features are supported on each gas flow run
- Flow runs for oil and water contribute to the 10 flow run total

### 'Virtual' Flow Computer device inside the SCADAPack x70 Smart RTU

- Access the flow computer Modbus register database by polling with the Modbus scanner or polling with function blocks in SCADAPack x70 Logic
- Increased separation between SCADAPack x70 Smart RTU Logic and the flow computer reduces the possibility of errors in logic adversely affecting the flow computer

### Backward-compatible Modbus mapping

- The Realflo 7.02 Flow Computer Modbus protocol map builds upon the previous versions running on SCADAPack 32, SCADAPack 3xx Smart RTUs and SCADAPack 4203 GFC.
- Existing SCADA Host software can continue to access collected flow data, and real time data on the SCADAPack x70 Smart RTU using the same protocols and mapping as previous versions

### Flow run inputs use tagged (named) objects

- Human-readable tags (object names) are used for connecting flow run inputs to the SCADAPack x70 Logic database
- Easy to understand the purpose of the object & data

### RTU configuration is done with RemoteConnect

- One application for RTU controller configuration (RemoteConnect)
- Helps to avoid potential configuration conflicts due to configuration from multiple sources

### Logic read/write of flow computer configuration via simple function blocks

- Logic programs accessing flow computer configuration now use function blocks with get/set commands rather than Modbus registers
- Helps to avoid conflicts due to unintended use of configuration registers in logic

Note:

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<sup>1</sup> SCADAPack x70 and 3xx Smart RTUs only.

Refer to the Realflo 7.02 Documentation Set for further details.

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