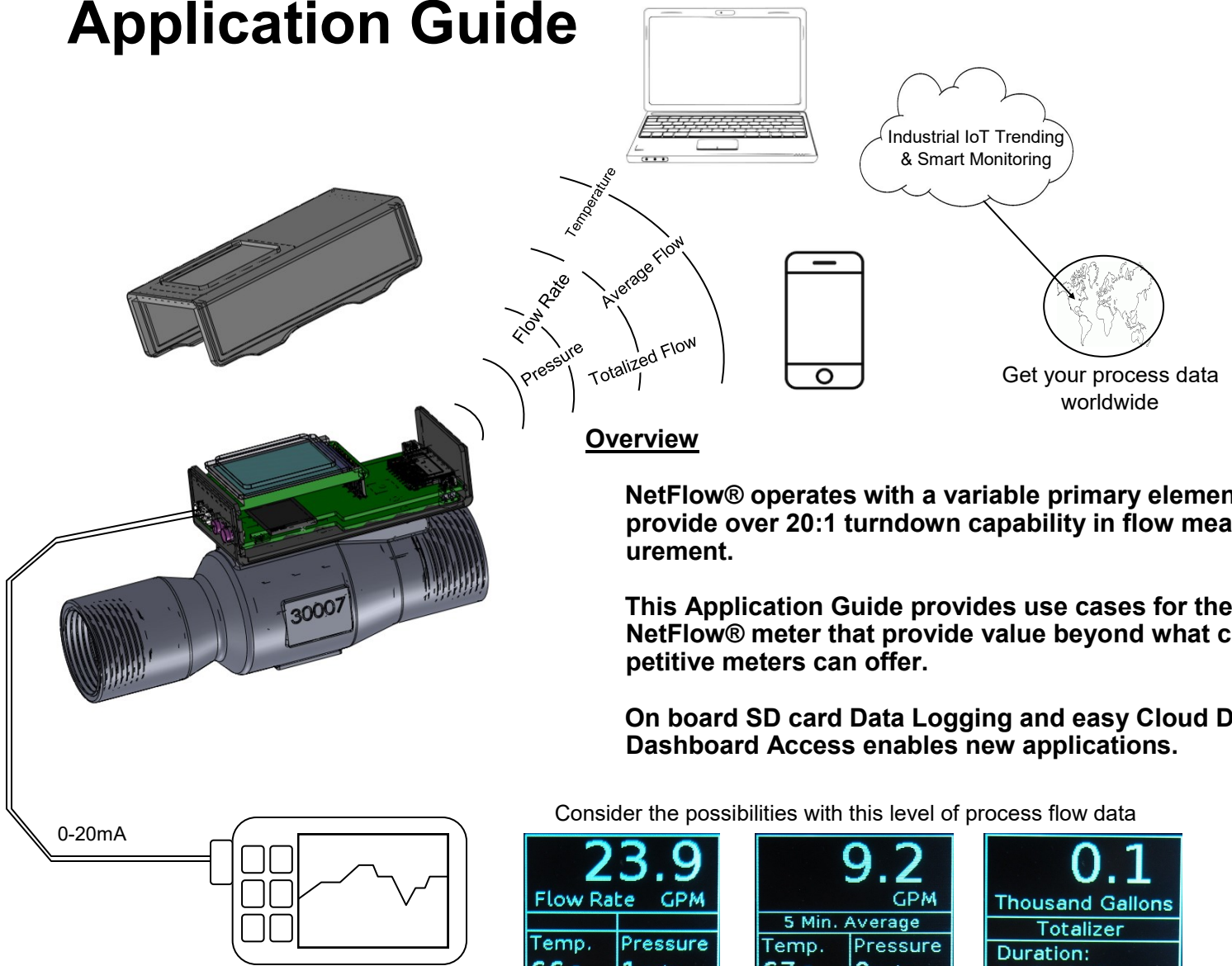


NetFlow®

WiFi Connected and Configured

Dynamic Pressure Flowmeter

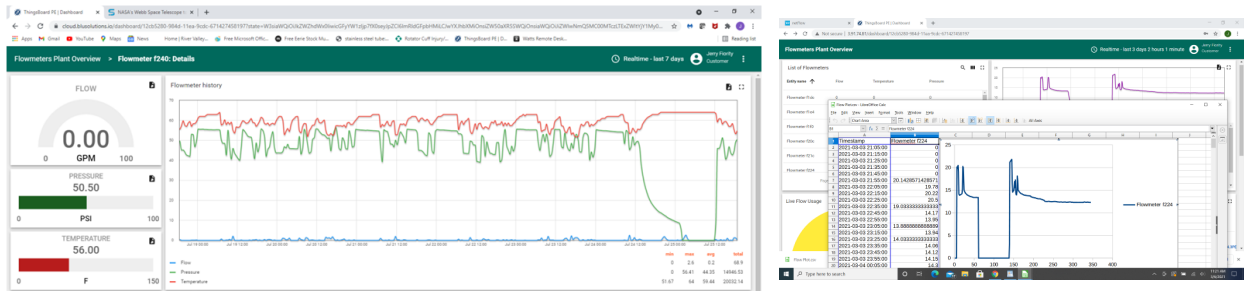
Application Guide



River Valley Design, LLC

Commercial Industrial Applications

Application #1	Real-Time Water Usage
Critical Data	Record Time & Date Stamped Instantaneous Flow, Pressure, and Temperature
Top 2 Value Propositions	Trend current usage and react to alerts before the end of the month bill surprise from the water company
	Double check the water company meter, and get alerts for low pressure, or freeze conditions before they cause failures



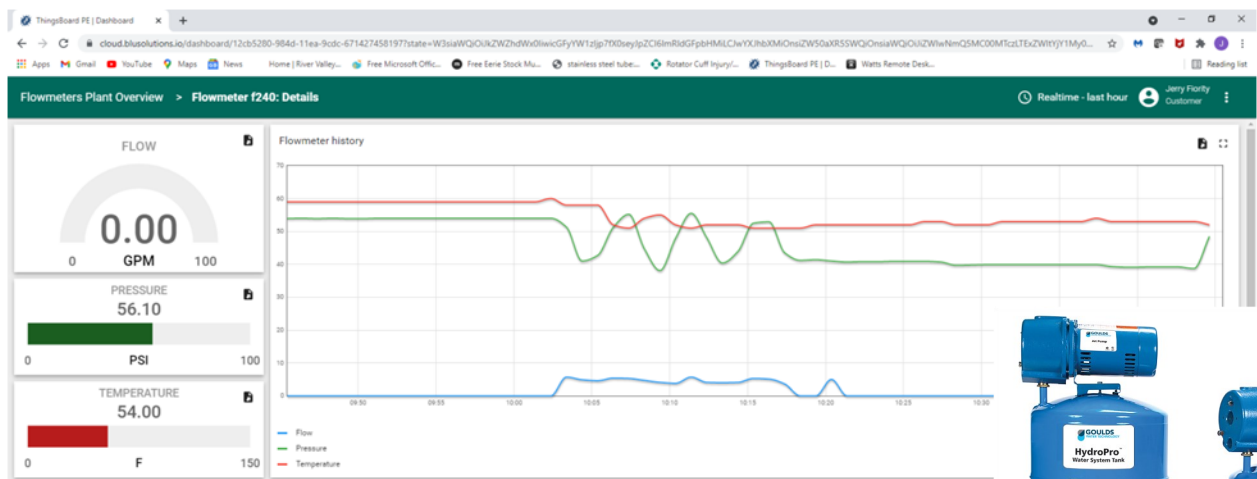
Application #2	Almost Any Process Fluid Flow Monitoring
Critical Data	Record Time & Date Stamped Instantaneous Flow, Pressure, and Temperature & Five Minute Average Data, and Recorded Total Flow and Duration
Top 2 Value Propositions	Make sure that your cooling fluid flowrate, temperature and pressure are on spec for your mixing or process application,
	Historical data trending allows you to review your process conditions in case an upset occurred in your process, aiding in root cause corrective actions.

Application #3	Fleet Vehicle Fuel Distribution Tracking
Critical Data	Record Time & Date Stamped Instantaneous Flow, Pressure, and Temperature & Record Total Flow and Duration of use
Top 2 Value Propositions	Know when and how much fuel was dispensed. Stop unauthorized usage.
	Total amount of fuel dispensed can be used to trigger a refilling order and checked against the amount of fuel purchased when the tanks were filled by the supplier.



Residential Applications

Application #4	Well Pump and Pressure Tank Monitor
Critical Data	Record and trend instantaneous flow, pressure, and temperature
Top 2 Value Propositions	Our long term datalogging and graphical trends will show declining pump capability, and indicate pressure tank bladder failure.
	Pressure cycle duration can be used to adjust the pressure switch limits to extend your well pump life and save \$\$\$



This plot shows a typical profile for a shower operation for a residence with a well pump and pressure tank.

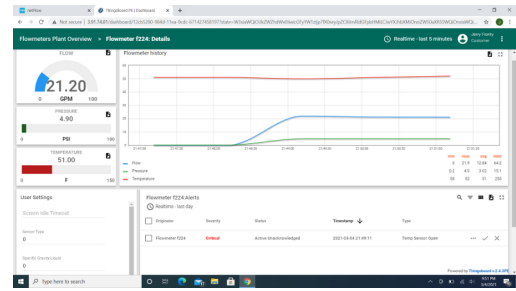
The blue line shows the flow rate, red is the water temperature, and green the water pressure at the NetFlow® location. The well pump cycled on 3 times during the shower, and then at the end of the plot. We can also see that the limits on the pressure control relay are set to power the pump at 40psig and shut off at 55psig.



Application #5	In Home Real-Time Water Usage Tracking
Critical Data	Record and trend instantaneous flow, pressure, and temperature
Top 2 Value Propositions	Trend current usage and react to alerts before the end of the month bill surprise from the water company
	Double check the water company meter, and get alerts for low pressure, or freeze conditions before they cause failures

OEM Applications

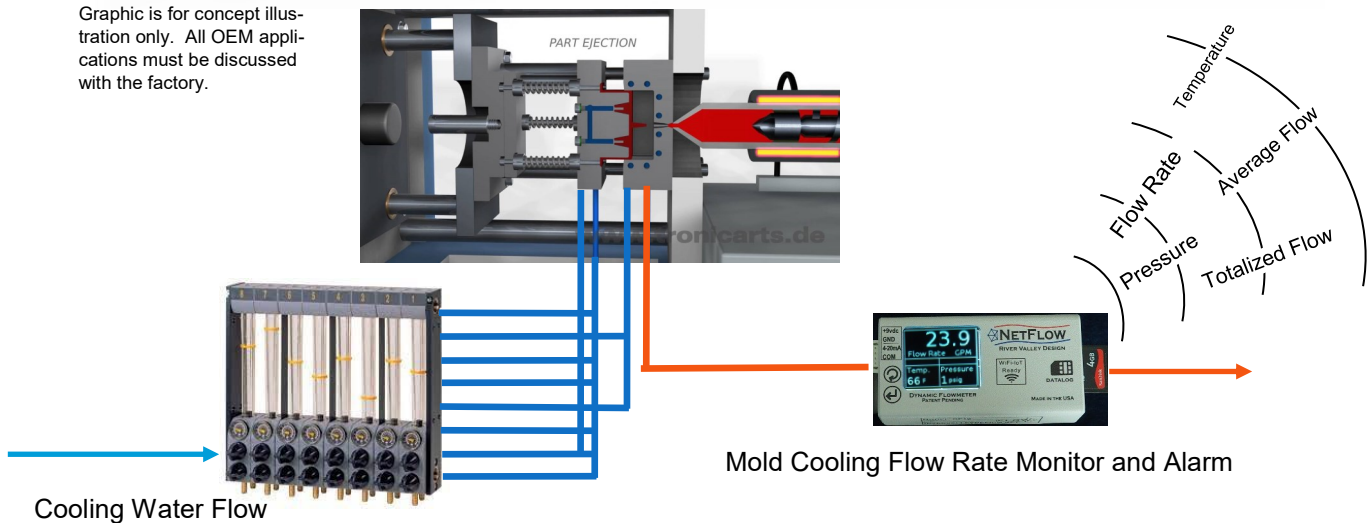
Application #6	Process Fluid Usage and Control Interface customization available
Critical Data	Record instantaneous flow, pressure, and tem-
Top 2 Value Propositions	Trend current usage and react to off spec alerts. Review historical data as needed. Optimize process conditions to reduce pressure and temperature fluctuations



Application #7	Injection Molding Machine Cooling Fluid Process Monitoring
Critical Data	Record Time & Date Stamped Instantaneous Flow, Pressure, and Temperature & Five
Top 2 Value Propositions	Make sure that your cooling fluid flowrate, temperature and pressure are on spec for Optimized mold temperatures will minimize short-shot drops, and minimize solidification times, and maximize parts/minute production

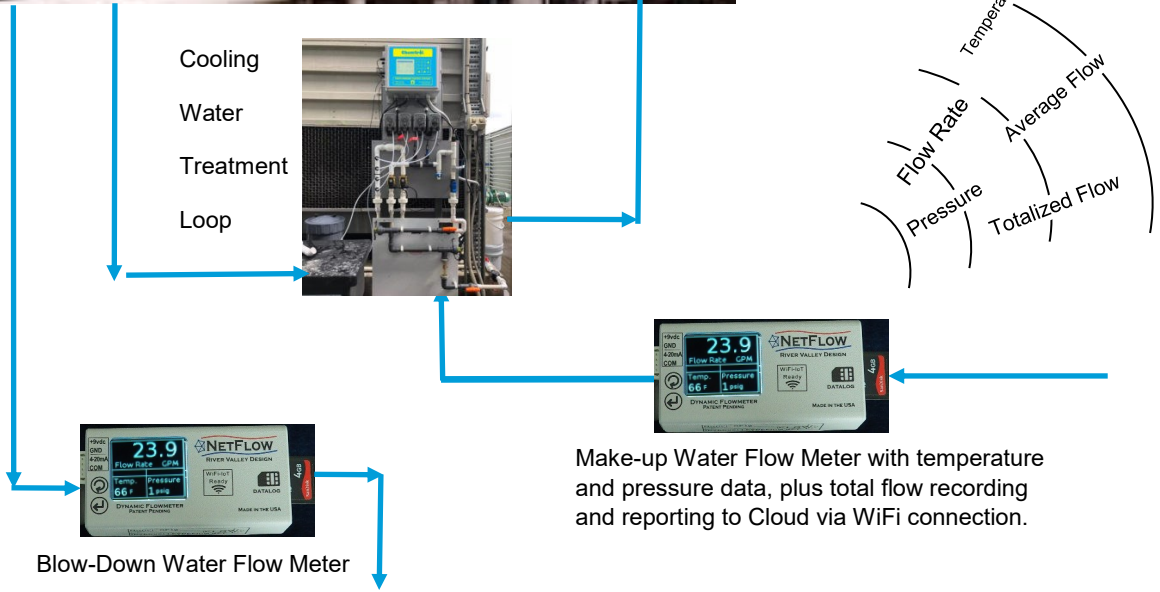
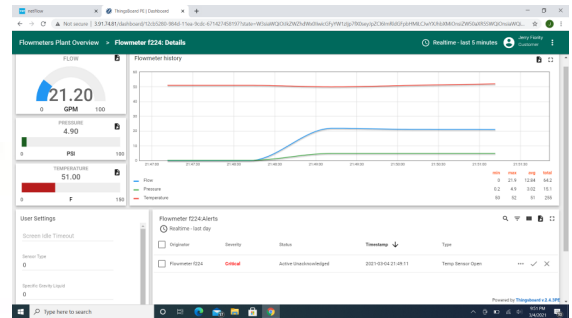


Graphic is for concept illustration only. All OEM applications must be discussed with the factory.



OEM Applications

Application #8	Cooling Tower Make-up and Blow-down Water
Critical Data	Record Time & Date Stamped Instantaneous Flow, Pressure, and Temperature & Five Minute Average Data, and Recorded Total Flow and Duration of use
Top 2 Value Propositions	<p>Make intelligent decisions about chemical feed rates and total chemical usage as a ratio of total make-up and blow-down flow data</p> <p>Use historical trends to determine feed and blowdown valve operation based on instant and historical flow data. Get alerted to leaks before they impact your operation.</p>



Make-up Water Flow Meter with temperature and pressure data, plus total flow recording and reporting to Cloud via WiFi connection.