PROCESSEYE

EASY INSTALLATION

Existing sensors can be utilized (those that have 4-20mA outputs), or ProcessEye sensors can easily be installed. The sensors might be insertable or surface-mount temperature sensors, ultrasonic transit-time flow meters or standard or differential pressure transmitters.

SIMPLE CONFIGURATION

Sensors interface with our RemoteLobes™ and can be configured by using any WiFi-capable device. There's no need for special software, cables, wiring, etc., since it's all done through a secure web browser.

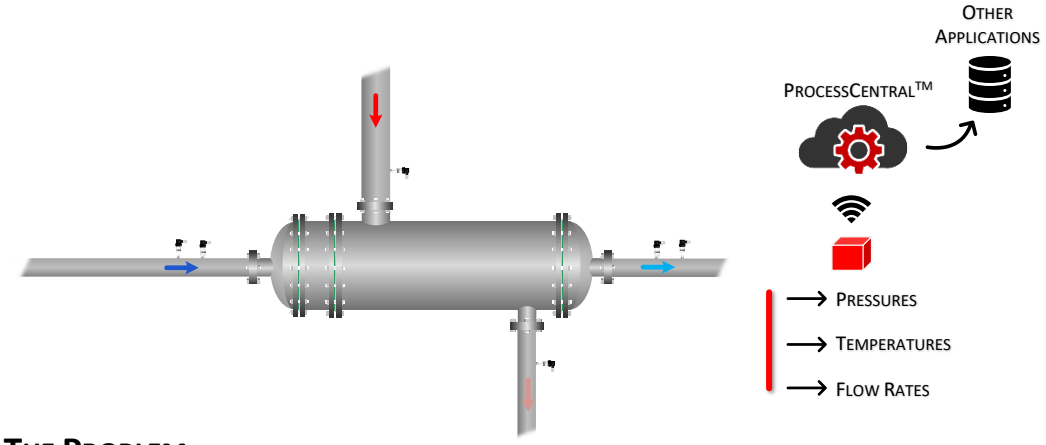
POWERFUL INSIGHT

Data is sent to ProcessCentral™, where the real value is derived. Custom calculation variables can be programmed so that parameters like ΔP, ΔT, LMTD or Overall Heat Transfer Efficiencies are displayed and trended out over time.

ECONOMICAL

Capital cost and human capital investment can be a challenge when monitoring multiple heat exchangers. Our Managed Program eliminates those concerns by providing all the equipment and services for a low annual fee in a manner like a cell phone. Let us worry about all the details while you extract the value from the data.

TRANSFEREYE™ HEAT EXCHANGER MONITORING PROGRAM



THE PROBLEM

Heat exchangers are arguably some of the most units within an industrial facility. They are responsible for the heating and cooling of various fluids for a wide variety of purposes. While most heat exchangers serve a critical purpose, very few have the necessary instrumentation and managerial oversight to enable personnel to know how they are performing. The result is decreased efficiencies, reduced production, increased maintenance, shortened equipment life and, in some cases, reduced safety.

THE SOLUTION

Our TransferEye™ Heat Exchanger Monitoring Program can utilize a combination of existing and new instrumentation to easily and effectively monitor heat exchanger performance. The parameters that need to be monitored are a function of the type of heat exchanger as well as the operating dynamics of the system. In some cases, the conditions might be very steady-state, and the outlet temperature of the fluids might be the only thing that needs to be monitored to get an indication of how the heat transfer surfaces are. In other cases, there might be the need more extensive monitoring, such as the temperature in/out of the cooling fluid, temperature in/out of the process fluid, pressure in/out of the cooling fluid, pressure in/out of all fluids, and/or flow rates of one or both fluids.

To accomplish extensive monitoring of heat exchanger performance, we provide sensors that are connected to RemoteLobes™, which are mini-computers with WiFi capability, with a simple screw connect electrical fitting. Users can easily connect to our RemoteLobes™ via any WiFi device to configure sensors on the heat exchanger. No special software, cables, wiring, drivers, etc. are required. There is not a simpler installation or configuration process for heat exchanger monitoring on the market.

From the RemoteLobes™, data begins to flow to our highly-secured web platform, called ProcessCentral™, where the rest of the value is derived. Users can easily develop calculated variables using the various sensor inputs as sources. Variables for ΔP, ΔT, LMTD and overall heat transfer efficiencies can be written effortlessly by any user.

THE FEATURES AND BENEFITS

- ✓ Identify Upsets in Heat Exchanger Performance and Prevent Production Downtimes
- ✓ Protect Asset Integrity
- ✓ Operate More Safely by Providing Proper Cooling of Critical Fluids
- ✓ No IT/OT Required…Start Monitoring Tomorrow

PROGRAM OPTIONS

- Bring Your Own Device (BYOD)
- Purchase Equipment Out-Right or Managed Program…Fixed annual fee – no upfront capital & no worries
- MODBUS Interface – COMING SOON

PROCESSEYE

SENSORS

FIELD DEVICES

CLOUD ANALYTICS

HISTORIAN

ALARMING

AUTO REPORTING

STANDARD PACKAGES – SINGLE SIDED

PARAMETER	DESCRIPTION	PACKAGE		
		BASIC	ENHANCED	PREMIUM
FLUID TEMP OR PRESSURE IN/OUT	*2 REMOTELOBES™, 2 CABLES, 2 INSERTABLE OR SURFACE-MOUNT TEMP TRANSMITTERS, OR 2 PRESSURE TRANSMITTERS*	✓	✓	✓
FLUID TEMP OR PRESSURE IN/OUT	*2 REMOTELOBES™, 2 CABLES, 2 INSERTABLE OR SURFACE-MOUNT TEMP TRANSMITTERS, OR 2 PRESSURE TRANSMITTERS*		✓	✓
FLUID FLOW RATE	*1 REMOTELOBE™, 1 CABLE, 1 TRANSIT-TIME ULTRASONIC FLOW METER*			✓

EXAMPLE CONFIGURATIONS

- Approach Temp/TTD Monitoring – 1x BASIC
- Differential Pressure Monitoring – 1x BASIC
- Single-Sided Monitoring – 1x ENHANCED
- LMTD Monitoring – 2x BASIC
- Heat Transfer Coefficient Monitoring – 1x BASIC + 1x PREMIUM
- Thorough Dual-Sided Monitoring – 2x PREMIUM

OTHER OPTIONS/CONFIGURATIONS AVAILABLE

- Add temperature, pressure, flow signals al-a-carte
- Incorporate air-based exchanger conditions via AmbiAirEye™ RemoteLobe™
- Differential pressure transmitters available instead of standard gauge pressure transmitters
- Incorporate existing process instrumentation signals via standard 4-20mA signals
- MODBUS capable RemoteLobe™ coming soon
- Purchase equipment out-right or part of a ProcessEye's Managed Program