



2 day Liquid Flow Measurement system Training

Location: GE Sensing Training Centers

DAY 1

8:30	9:00	Continental Breakfast / Introductions – Overview of Course Discussion of customer specific applications
9:00	10:15	Ultrasonic Flow Measurement Fundamentals <ul style="list-style-type: none">• What is Ultrasound• Speed of Sound• What is the Transducer• Flow Terms & Definitions• Flow Measurement Techniques<ul style="list-style-type: none">○ Doppler (limited capability)○ Transit Time (preferred method)• Fluid Dynamics<ul style="list-style-type: none">○ Interaction with Transit Time○ Application Considerations• Basic Equations
10:30	11:00	Ultrasonic Flowmeters & Transducers <ul style="list-style-type: none">• Capabilities and Types<ul style="list-style-type: none">○ Wetted vs. Clamp-On○ Fixed Install and Portable
11:00	12:00	Liquid Meter System Components- Overview <ul style="list-style-type: none">• Meter Models• Meter Options• Cables• Liquid Transducer Selection
12:00	1:00	Lunch
1:00	2:00	Hands On - Lab <ul style="list-style-type: none">• Programming the meter - Keypad• Portables• Transducers<ul style="list-style-type: none">○ Wetted○ Clamp-On• Complete set-up
2:00	2:15	Break
2:15	3:00	Classroom Diagnostic Discussion <ul style="list-style-type: none">• Liquid Diagnostics• Liquid Fault Conditions
3:00	4:00	Lab – Troubleshooting Fault Conditions <ul style="list-style-type: none">• Clamp-on• Wetted



Recap & Review

Day 2

8:30	9:00	Continental Breakfast
9:00	9:30	Intro to Signal Processing <ul style="list-style-type: none">• General Principles of Signals• S/N Ratio• Good vs. Bad Signal
9:30	10:30	Classroom Software Communications - IDM <ul style="list-style-type: none">• Diagnostic Data<ul style="list-style-type: none">o Saving Log Datao Transferring to Excelo Trend Data• Capturing Signal Data
1:00	1:30	Break
10:30	10:45	Lab – Connecting to lab meter using IDM Comm <ul style="list-style-type: none">• Programming• Setting Data Log• Viewing Live Diagnostic Data• Capturing Signal Data
2:30	3:00	<ul style="list-style-type: none">• Error codes with IDM
3:00	3:30	Lunch
		Classroom Software Comm. - Panaview <ul style="list-style-type: none">• Diagnostic Data<ul style="list-style-type: none">o Saving Log Datao Transferring to Excelo Trend Data• Capturing Signal Data
		Lab – Connecting to lab meter using Panaview <ul style="list-style-type: none">• Programming• Setting Data Log• Viewing Live Diagnostic Data• Capturing Signal Data
3:00	3:15	Break
3:15	4:00	Practical Field Procedures <ul style="list-style-type: none">• Removal Installation of Transducers• Installation / Removal of Option Boards• Basic Troubleshooting