

Endress+Hauser flow meter calibration/verification

Addressing EPA 40 CFR Parts 86, 87, 89, et al. Mandatory Reporting of Greenhouse Gases Rule and EPA proposed rule 40 CFR Parts 60, 61, and 63 Standards of Performance for New Stationary Sources (PS-17/P-4)

Appropriately applied and E+H installed flow meters (i.e. Promass (Coriolis), Prosonic (Ultrasonic), Prowirl (Vortex), Promag (Electro Magnetic)) not currently part of Endress+Hauser's [Calibration Lifecycle Management™](#) program have the following recommended calibration/verification requirements.

- **Non-demanding installations** with the following characteristics would be expected to be in compliance, given:
 - Non aggressive fluids, such as natural gas, fuel gas and non abrasive fuel oil
 - Stable ambient conditions (i.e. indoors)
 - No damage to, or material buildup within the flow meter assumed
 - Factory calibration at one of Endress+Hauser's ISO 17025 NIST traceable facilities or NIST traceable recalibration, including onsite, within the period determined by the MPE ranges below

Maximum Permissible Error (MPE)	NIST traceable calibration period
Greater than or equal to 5%	4 years
Less than 5% and greater than 2%	3 years
Less than or equal to 2%	1 year

- **Demanding installations** with answers provided to the questions below, and within the calibration/verification periods calculated by Endress+Hauser, your installation would be expected to be in compliance:

Accuracy (choose one only)		Company Info	
MPE?	<input type="checkbox"/> ≥ 5% <input type="checkbox"/> < 5% and > 2% <input type="checkbox"/> ≤ 2%	Customer	
		Address	
		City/State/Zip	
		Phone	
		Contact	
Fluid Type (choose one only)		Instrument Info	
Fluid conditions?	<input type="checkbox"/> Non-aggressive <input type="checkbox"/> Corrosive/abrasive <input type="checkbox"/> Coating	Serial #	
		Order Code	
		Date of last cal	
Environment (choose one only)		Application Fluid	
Temperature conditions?	<input type="checkbox"/> Stable ambient <input type="checkbox"/> Fluctuating <input type="checkbox"/> Extreme	Fluid Name	
Preventive Maintenance (choose one only)		Quality Requirements	
Monitoring between calibration events?	<input type="checkbox"/> None <input type="checkbox"/> Continuous meter health monitoring <input type="checkbox"/> Documented periodic NIST traceable verification <input type="checkbox"/> Continuous meter health monitoring + Documented periodic NIST traceable verification	ISO 9001 Compliant?	<input type="checkbox"/> Yes <input type="checkbox"/> No
		Comments:	

Please complete one sheet per flow meter.

For assistance with your specific GHG flow meter assessment contact:

Endress+Hauser Hotline: 800-642-8737

or contact your local Endress+Hauser representative.