

Wet Gas Meter



The [Wet-Gas Metering](#) technology is an extension of Haimo Technologies standard Multiphase meter. In the wet-gas meter, we measure gas and condensate. Depending upon the client requirement, the meters can either be a spool piece or skid mounted design.

Introduction

Haimo Wet Gas Meter is a state-of-the-art technology for inline measurement of wet gas flow. The meter allows accurate measurement of liquid (water/condensate) content in the gas and individual flow rate of gas and liquid, with a very compact mechanical solution. Depending upon the client requirement, the meter can either be a spool piece or skid mounted design.



20 units of Haimo Technologies WGM (8 inch) for UAE



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Measurement principle

Total flow rate of the multiphase stream is measured by the venturi flow meter. Gamma ray technology is used to measure phase fraction, i.e. GVF. The Multivariable Transmitter (MVT) measures pressure, temperature and differential pressure. The pulses from gamma meters are processed by a new design of Haimo's high-frequency transmitter.

A Data Acquisition Unit (DAU) performs all calculations and converts flow measurements from line to standard condition. Unique redundancy design enables self-verification and improves reliability.

Performance

Meter dimension:	1.5-16 inch
Operating pressure:	0-35Mpa
Operating temperature:	-50 to 150°C
Operating range:	90-100% (GVF) 0-0.3 (LM)
Flange connection:	ASME,API,Hub
Wetted parts materials:	SS,DSS,CS,Inconel,Alloy

Power supply:	24VDC or 110/220VAC
Power consumption:	<50W
Output interface:	RS232/485
Communication protocol:	Modbus RTU,ASCII,TCP

Measurement		Range	Measurements	Uncertain (95% confidence level)	Repeatability
Gas Volume Fraction (GVF)	Gas Mass Fraction (GMF)	Lockhart- Martinelli (LM)			
90-100%	80-100%	0-0.3	Gas Mass Flow Rate	2%	1 /3 or %
			Total Mass Flow Rate	3%	

Features

- Compact, lightweight and modular
- Non-Intrusive
- No moving parts, low maintenance requirements
- Wide operational range
- Remote operation and self verification
- Remote operation and data acquisition
- Unique in-line wet gas model
- Low pressure loss
- Low power consumption

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<http://www.haimotech.com/Products-and-Services/MPFM/Wet-Gas-Meter.html>

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