

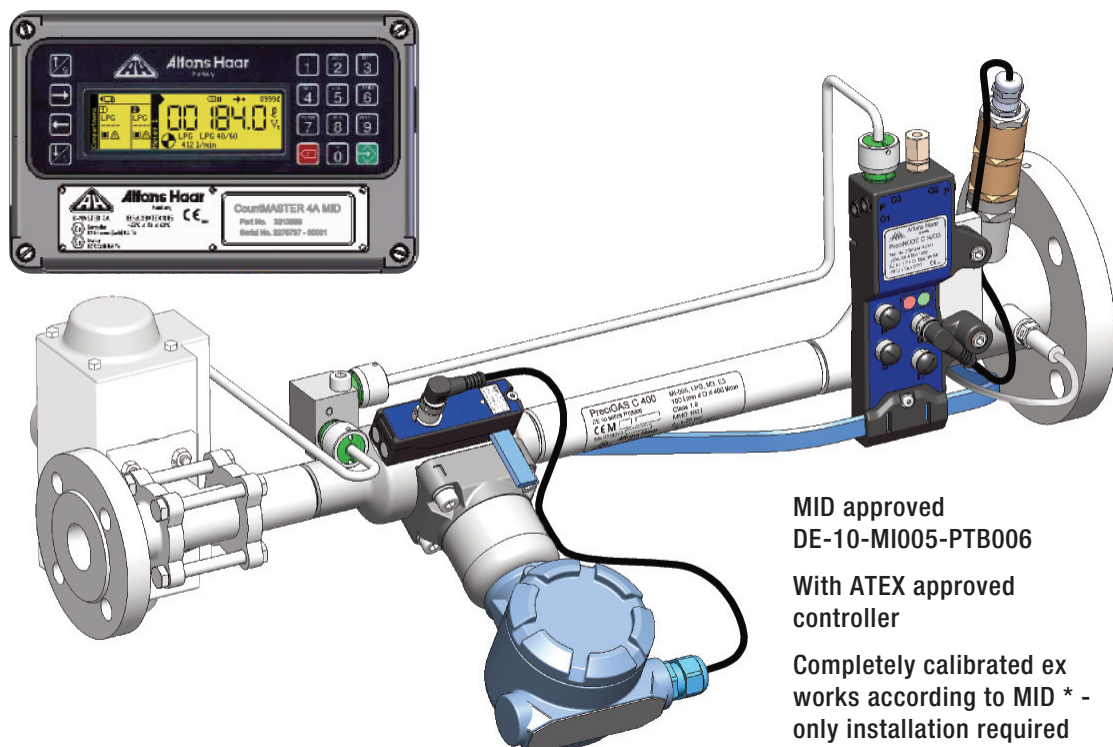
PreciGAS C 400/1000

PreciCONTROL based Measuring unit



Alfons Haar

Wear-free liquefied gas measuring unit 400 l/min / 1000 l/min with constant high measuring accuracy



MID approved
DE-10-MI005-PTB006

With ATEX approved
controller

Completely calibrated ex
works according to MID * -
only installation required

- High measuring accuracy ($\pm 0,3\%$)
- 100 % maintenance-free, measuring section has no moving parts
- Low pressure loss, high delivery rates, because of straight flow without elbows
- Fail-safe electronic devices because of potting protection and burn-in test
- Compact units, directly installable in zone 1. Instrument cabinet not required
- Fastening at connection flanges without additional brackets
- Only one interface with simple operation and installation – no additional terminal boxes are necessary
- Automatic control of all measuring unit functions, incl. pump and foot valve
- No gas separator necessary, therefore no wet return pipe required
- By using the tamper-proof bus system **PreciCONTROL** the complete metering system becomes tamperproof (see separate brochure)

* When placing on the market according to MID Annex D the calibration-related parameters will be pre-configured by Alfons Haar

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DESCRIPTION

The volumetric measurement is achieved by measurement of the pressure drop at a venturi nozzle and the integration of it over time.

An especially designed venturi nozzle with adapted pressure transducer allows perfect precision without any moving parts. Venturi nozzles compensate by principle for a certain level of bubbles as they appear in such systems typically. Even a Coriolis meter is not able to achieve that. Due to the measuring principle, he needs to work with a gas separator together. This designed venture nozzle makes this accuracy superior compared to conventional volumetric meters. A Coriolis meter will achieve max. +/- 0,43 % due to producer calculation.

Against tampering an electronic bubble detector is added which monitors any kind of compressed air, CO₂ or other gas injection. This feature allows to eliminate a bulky and heavy gas separator with a wet return pipe.

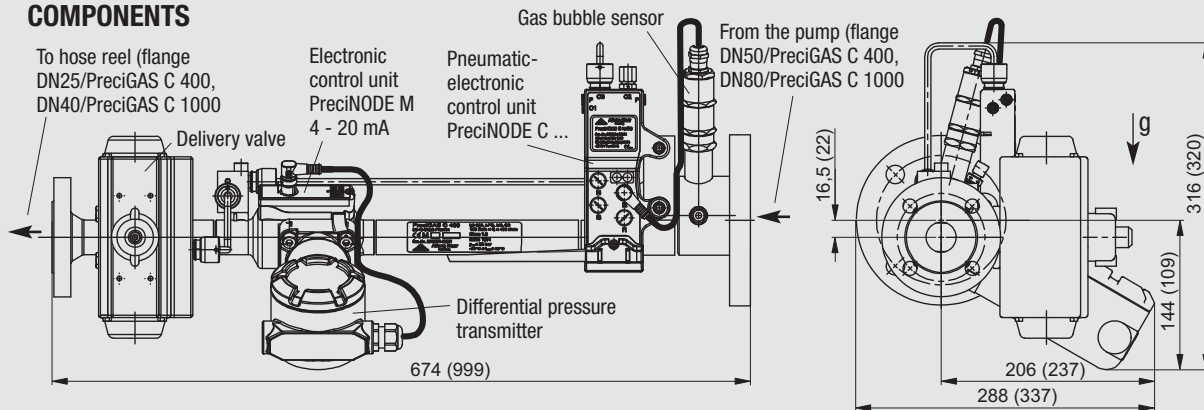


approx. 3.8 kg

approx. 13 kg

PreciGAS Venturi injector with differential pressure transmitter compared to conventional LPG measuring unit (consisting of volumetric meter and gas separator).

COMPONENTS



TECHNICAL DATA

	PreciGAS C 400	PreciGAS C 1000
Measuring range:	100 l/min up to 400 l/min	250 l/min up to 1000 l/min
Minimum measuring quantity:	100 l	200 l
Measuring product:	Propane, butane and their mixtures (LPG)	
Max. operation overpressure:	25 bar	
Power supply:	24 V DC on-board electronic unit (15 ... 32V)	
Weight measuring unit:	15 kg	26 kg

Alfons Haar delivers the measuring unit pre calibrated and sealed to MID approval