

Thermal Mass Flowmeter BROCHURE

JUNHO 2013

Tel: (+351) 21 843 64 00
Fax: (+351) 21 843 64 09
geral@bhb.pt www.bhb.pt



Thermal mass flowmeter Sensyflow FMT for gases

Power and productivity
for a better world™



ABB's strengths

Your benefits

Highest Accuracy

Typ. 1 % of measuring value
Calibration on DKD test facility

Outstanding Repeatability

< 0.2% of the measuring value

Wide measuring range

Turn down ratio up to 1:150

Negligible pressure loss

Max. 3 mbar, hence no additional energy is incurred

Low cost of ownership

Maintenance free, no wear, no moving parts

Shortest response time

$T_{63} < 0.5 \text{ s}$

For pipes from DN25...DN3000

Applicable also for rectangular ducts with weld-on adapter

The measuring principle

This measurement method directly determines the gas mass flow. The standard volume flow rate can be displayed without additional pressure and temperature compensation.



Sensyflow

FMT400-VTS, FMT400-VTCS

The experts for process and hygienic applications. The transmitter directly delivers an electrically isolated 4...20 mA output signal.

FMT400-VTS

- Robust and variable design for process engineering
- Affordable solution for measuring vitalisation air and natural gas production
- Certificates: ATEX zone 2/22, GOST, DVGW

FMT400-VCTS

- Hygienic version for the food and beverage industry, pharmacy
- Suitable for CIP and SIP, certified by TU Weihenstephan
- Pipe components available with FG flanges or tube threads S



FMT400-VTS



FMT400-VCTS

Sensyflow FMT500-IG

Intelligent sensor with digital signal processing combined with years of application experience in various process applications all over the world.

FMT500-IG

- 'Easy set-up' menu for user-friendly commissioning
- Various alarm and limit value functions, status and diagnostic signals
- Gas temperature measurement
- The flowmeter provides the measuring signals either as analog/HART or PROFIBUS signals (depending on the version)
- Certificates: ATEX/GOST for zone 0, FM/CSA, DVGW



FMT500-IG
remote version

Sensyflow

Your best solution



At a glance

The evaluation unit with backlight graphic display offers numerous status and diagnostic functions, numeric and graphic display and a time-saving 'Quick Setup Menu'.

Aligning

The unique centering pin mounted on the pipe component ensures perfect location of the sensor in the pipe. Identical mounting position, even after removing the sensor for maintenance.

Flexible

Due to the wide range of available pipe components, Sensyflow FMT400 and FMT500 are easily adapted to your preferred process connections. Optional flow straightener can also significantly reduce the required straight inlet pipework length.

Cost-saving

Due to the negligible pressure drop across the flowmeter, (typically 1 mbar) no additional energy usage is incurred by the measurement. Furthermore the ABB Sensyflow thermal mass flow technique provides the best accuracy in the market.

Precise measurement

The stainless steel cage not only protects the sensor from damage, but also provides a stable flow profile and precise repeatable measuring results.

Sensitive

The unique sensor construction consists of two glass coated platinum resistors, giving an extremely fast response time (< 0.5 s). High measurement sensitivity means that even the lowest gas flows are detected.

Contactos/Contacts:

Comercial/Commercial:

Fernando Mena Costa

e-mail: fcosta@bhb.pt

Tel: (+351) 21 843 64 00

Fax: (+351) 21 843 64 09

Assistência/Service:

Patricia Costa

e-mail: ppcosta@bhb.pt

Tel: (+351) 21 843 64 00



Note:

ABB the owner of this document, reserves the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

Copyright© 2011

ABB. All rights reserved

Tel: (+351) 21 843 64 00
Fax: (+351) 21 843 64 09
geral@bhb.pt www.bhb.pt