

Promag 53H



More information and current pricing:

www.be.endress.com/53H

Benefits:

- Flexible installation concept – numerous hygienic process connections
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Quality – software for filling and dosing, density, electrode cleaning and also advanced diagnostics
- Easy calculation – bidirectional totalizers
- Automatic recovery of data for servicing
- Maintenance-free – no moving parts

Specs at a glance

- **Max. measurement error** $\pm 0.2\%$
- **Measuring range** 0...600 m³/h
- **Medium temperature range** -20...+150°C (-4...+302°F)
- **Max. process pressure** PN16 to 40
- **Wetted materials** Liner: PFA Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); Tantalum; Platinum Process Connections: stainless steel, 1.4404 (F316L); PVDF; PVC adhesive sleeve Seals: O-ring seal (EPDM, FKM, Kalrez), aseptic molded seal (EPDM, FKM, silicone) Grounding Rings: stainless steel, 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); tantalum

Field of application: Promag H is the preferred sensor for applications with highest requirements in the food & beverage and life science industries. Combined with the Promag 53 transmitter with touch control, four line display and extended functionality like software options for filling and dosing, electrode cleaning or advanced diagnostics, Promag 53H offers highest accuracy in the most complex and demanding measuring tasks. Promag 53H is available in a compact or remote version.

Features and specifications

Liquids

Measuring principle

Electromagnetic

Product headline

The flowmeter for smallest flow rates with flexible system integration. For demanding hygienic applications.

Sensor features

Flexible installation concept – numerous hygienic process connections. Energy - saving flow measurement – no pressure loss due to cross - section constriction. Maintenance - free – no moving parts. Liner made of PFA. Sensor housing made of stainless steel (3-A, EHEDG).

Transmitter features

Quality – software for filling & dosing, density, electrode cleaning and also advanced diagnostics. Easy calculation – bidirectional totalizers. Automatic recovery of data for servicing. 4 - line backlit display with touch control. Device in compact or remote version.

Nominal diameter range

DN 2...150
1/12"...6"

Wetted materials

Liner: PFA

Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022);
Tantalum; Platinum

Process Connections: stainless steel, 1.4404 (F316L); PVDF; PVC
adhesive sleeve

Seals: O-ring seal (EPDM, FKM, Kalrez), aseptic molded seal (EPDM,
FKM, silicone)

Grounding Rings: stainless steel, 1.4435 (316L); Alloy C22, 2.4602
(UNS N06022); tantalum

Measured variables

Volume flow

Liquids**Max. measurement error**

±0.2%

Measuring range

0...600 m³/h

Max. process pressure

PN16 to 40

Medium temperature range

-20...+150°C

(-4...+302°F)

Ambient temperature range

-20...+60°C

-40...+60°C (optional)

Degree of protection

IP 67 (NEMA 4x)

Display/Operation

Four line display with backlit

Touch control

Outputs

4...20 mA

Pulse / frequency(active/passive)

Relais

Status

Inputs

Status

Current input

Digital communication

HART

PROFIBUS PA

Profibus DP

FOUNDATION Fieldbus

Liquids

Hazardous area approvals

ATEX, FM, CSA

Product safety

CE, C-tick, EAC marking

Hygienic approvals and certificates

3-A, EHEDG

More information www.be.endress.com/53H