Promag 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 ±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**

**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)
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**Measured variables**
Volume flow
### Liquids

<table>
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| **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