

Turbine flowmeter HM-E / HMP-E

Application/Specific usage

- Measurement of flow and volume of pure, low viscosity media in food and pharmaceutical applications
- Designed for hygienic applications for food, beverage and pharmaceutical industries

Application Examples

- Process water, demineralized water, aqueous media such as filtered fruit juice or beer, alcohol, light oils, coffee solutions, cleaning agents, and acids

Hygienic design/Process connection

- Hygienic design, conforming to 3-A certification
- 2 part housing ensures simple cleaning and maintenance
- High media retention due to stainless steel 316L and Teflon® bearings
- Material suitable according to FDA 21 CFR and EN 18252 Series 2
- Internal clamp connection

Features

- High quality and hygienic alternative to industrial, non-hygienic turbine, paddle wheel or variable area flowmeters
- Compact design for easy flowmeters in use - construction, low viscosity media
- Cost effective and compact alternative to magnetic induction flowmeters in applications that require a small probe

Optional accessories

- 2 wire signal probe with 1/2" connection
- For tubular/cable for 1/2" connection
- Flow output via external universal transmitter "M2-01"

Measuring principle

- The signal probe (1) generates an electromagnetic field (2) in an oscillating current (3)
- The electromagnetic field penetrates the stainless steel walls of the housing and induces an eddy current (eddy current) in the turbine rotor (4)
- The eddy current, in turn, generates an electromagnetic field that counteracts the magnetic field generated by the oscillating current and thus causes a change in the oscillating current voltage
- The integrated amplifier (5) converts these voltage changes into a pulse signal with a frequency that is directly proportional to the rotational speed of the turbine

Certification



HM-E



HMP-E



Non-contact pulse measurement

