Capacitance
Level measurement
Liquicap FMI52

For continuous level and interface measurement in liquids - for large measuring ranges

More information and current pricing:
www.casc.endress.com/FMI52

Benefits:

- Use also in safety systems requiring functional safety to SIL2 in accordance with IEC 61508
- Reliable and universal application thanks to wide range of certificates and approvals
- No calibration necessary (factory preconfiguration). No calibration necessary for media with a conductivity of 100µS/cm and higher
- Material in contact with the process made of corrosion-resistant material
- Menu-guided local configuration via plain text display (optional)
- Two-stage overvoltage protection

Specs at a glance

- **Accuracy** repeatablity 0,1%
- **Process temperature** -80°C...200°C -112°F...392°F
- **Process pressure absolute / max. overpressure limit** Vacuum ... 100 bar (Vaccum ... 1450 psi)
- **Max. measurement distance** 0.42 m ... 10.0 m (1.38 ft ... 33 ft)
- **Main wetted parts** Insulation material: FEP,PFA 316L

Field of application: Liquicap FMI52 is a reliable fully insulated rope probe for continuous level monitoring in liquids, particularly in small tanks, build-up forming media and extremely high temperatures - especially for large measuring ranges. The measurement is independent of the dielectric constant (dc). Used in conjunction with Fieldgate FXA320 (remote measured value interrogation using Internet

technology), Liquicap is an ideal solution for Inventory Management Solutions.

Features and specifications

Continuous / Liquids

Measuring principle
Capacitive

Characteristic / Application
Fully insulated rope probe, for standard and extreme process conditions (temperature, pressure)

Interface measurement
Interfaces liquid / liquid also with emulsion layers

Specialities
Inactive length
Factory calibrated
short response time by change of value

Supply / Communication
12-36V DC HART
PFM

Accuracy
repeatablity 0,1%

Linearity error for conductive liquids
<0,25%

Ambient temperature
-50°C...+70°C
-58°F...+158°F

Process temperature
-80°C...200°C
-112°F...392°F

Continuous / Liquids

Process pressure absolute / max. overpressure limit
Vacuum ... 100 bar
(Vaccum ... 1450 psi)

Main wetted parts
Insulation material: FEP,PFA
316L

Process connection
G 3/4, G 1, G1 1/2 /NPT 3/4", NPT 1, NPT1 1/2"
Flange from DN25.../ASME 1".../JIS...

Process connection hygienic
Tri-Clamp ISO02852 gap free plated
Dairy coupling
Flush-mounted seal

Sensor length
Total length: 6m (20ft)
Inactive length: max. 2m (7ft)

Max. measurement distance
0.42 m ... 10.0 m
(1.38 ft ... 33 ft)

Communication
4...20mA HART
PFM

Certificates / Approvals
ATEX, FM, CSA, IEC Ex, TIIS, INMETRO, NEPSI, EAC

Safety approvals
SIL

Design approvals
EN 10204-3.1
NACE MR0175

Continuous / Liquids

Hygienic approvals
EHEDG

Marine approval
GL/ ABS/ DNV

Options
Separate housing
gas-tight probe seal

Application limits
Changing, non-conductive
media, conductivity
< 100 µS/cm
Notice the pressure and temperature derating

More information **www.casc.endress.com/FMI52**