

Title (en)
MAGNETOSTRICTIVE LEVEL PROBE WITH INTEGRATED QUALITY SENSOR

Title (de)
MAGNETOSTRIKTIVER NIVEAUMESSSONDE MIT INTEGRIERTEM QUALITÄTSSENSOR

Title (fr)
SONDE DE NIVEAU MAGNÉTOSTRICTIVE AVEC CAPTEUR DE QUALITÉ INTÉGRÉ

Publication
EP 2984461 A1 20160217 (EN)

Application
EP 14722757 A 20140404

Priority
• IT TO20130280 A 20130408
• IB 2014060427 W 20140404

Abstract (en)
[origin: WO2014167471A1] Magnetostrictive level probe (1) to determine at least one level (h) of at least one fluid (f) contained in a tank (C). The probe (1) comprises a rod (3), which extends along an axis (k); at least one mobile float (4), which can slide along said axis (k); at least one magnet (40), which is associated with each one of said at least one float (4); a probe body (2), which is fixed close to an end of said rod (3) and comprises at least one electronic circuit (20) that is at least adapted to determine the position of said float (4) in the direction of said axis (k); at least one guide (5), for guiding a high-frequency electric impulse generated by said circuit (20), and at least one first housing structure (32), which longitudinally extends along the direction of said axis (k) and houses a guide (5). The probe comprises at least one second housing structure (60), which extends along the direction of said axis (k) and comprises at least one fluid quality sensor (7), arranged in said second housing structure (60) and electrically connected to said at least one electronic circuit (20). The quality sensor (7) is adapted to measure the density, viscosity and dielectric constant of the fluid content, the quality and/or composition of which are to be determined.

IPC 8 full level
G01F 23/30 (2006.01); **G01F 23/62** (2006.01); **G01F 23/72** (2006.01); **G01H 3/00** (2006.01); **G01N 9/00** (2006.01)

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Citation (search report)
See references of WO 2014167471A1

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Designated extension state (EPC)
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