

# MNR 7 Ex

## Magnetic float level controller

II1/2 G EEx ib IIC T4 TÜV 03 ATEX 2243



MISE EN SERVICE

**BAMO MESURES**

22, Rue de la Voie des Bans - Z.I. de la Gare - 95100 ARGENTEUIL  
Tél : (+33) 01 30 25 83 20 - Web : [www.bamo.fr](http://www.bamo.fr)  
Fax : (+33) 01 34 10 16 05 - E-mail : [info@bamo.fr](mailto:info@bamo.fr)

Magnetic float level controller  
**MNR 7 Ex**

06-01-2009

550 M1 03 A

**MES**

**550-03/1**

## Safety Precautions

Installation, initial start-up and maintenance may only be performed by trained personnel! All applicable European and national regulations regarding installation of electrical equipment must be adhered to.

- The device may only be connected to intrinsically safe measuring circuits which comply with the specifications included in the technical data and on the serial plate!
- The device must be disconnected from all sources of power during installation and maintenance work!
- The device may only be operated under the conditions specified in the operating instructions!

## FUNCTIONS DESCRIPTION

The MNR7/Ex magnetic-float-actuated switch functions as a sensor for acquiring liquid fill-levels which are subject to **category 1 (zone 0) conditions**.

The float moves up and down the guide tube as the fill level rises or drops. Reed contacts are integrated into the guide tube, and are actuated by the magnets located in the float

- Notes:**
- For low viscosity media only!  
Not for liquids containing solids or magnetic particles.
  - The device may not be used with liquids which tend to become resinous or sticky, or to crystallise.

## TECHNICAL FEATURES

Wetted parts material:	Stainless steel DIN 1.4571 (AISI 316 L) - PTFE
Housing:	Aluminium, IP 65 acc. EN 60 529
Process connection:	BSP 1" as a standard or Flange DN100 PN10 stainless steel 1.4571
Length:	200...3000 mm
Minimum specific weight:	750 g /L
Fluid temperature:	-20...+100°C
Room temperature:	-20...+60°C
Contact:	1 to 4; bi-stable change over contacts, 60 VA
Minimum distance between 2 contacts:	50 mm

**The use of a magnetic float level controller MNR 7 Ex is only for connection to intrinsically safe control circuits in conformity with EEx ia II C or EEx ib II C specification in zone 0 category 1.**

### CE Mark:

In accordance with low-voltage directive (73/23/ECC), EMC directive (89/336/ECC); EN 50 082-2:1995 and EN 55 011 (class A):1991.

