

# PROBE

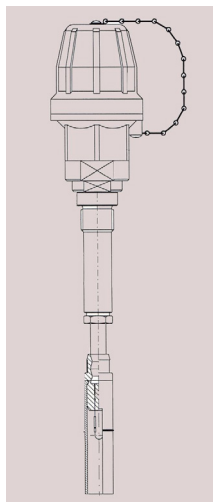
TYPE G7 GOJ

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***Retain these instructions for future use.***

Edition 1.6 - 21-05-25



**Standard sensor for cisterns  
CONTAINING FUEL OIL (eo1)  
and diesel**

- Temperature range -25°C to +50°C
- Probe for electronic level alarm
- Probe for overfill prevention

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## Mounting instructions

Design with R 1/2 "connection for mounting in R 1/2" sleeve.

### Placement

In 1/2 "sleeve on jacket or manhole min 350 mm from filling and cistern wall. If sleeve is missing use a 1/2 "counter nut with washer and rubber gasket for direct mounting in the manhole.

In connected cisterns, the sensor is mounted in the cistern that is first filled. In the conical cistern or cistern with abnormal inclination, the sensor is placed in the lowest part or adjusted downwards accordingly.

### Length

The length of the probe must give 95% degree of filling. The table shows the sensor's length (L dimensions) from thermistor marking to flange. Minimum length GOJ = 110 mm, G7 = 120 mm. Maximum length GOJ = 170 mm, G7 = 250 mm.

NOTE! Minimum allowable dimensions is 110 mm.

The mark for the sensor switch-off level must not be fixed higher than 25 mm below the vent pipe orifice in the cistern.

### Adjust the length

When mounting in the sleeve and / or manhole, increase the L-measure with the height of the sleeve and manhole.

## Adjustment

1. Loosen the adjusting nut on the telescopic part of the probe.
2. Slide the tube to the correct L dimension. Distance of thermistor marking to flange.
3. Tighten the adjusting nut.

## Mounting

Seal the gasket with pipe tape. Tighten tight for sealing.

## Connection

When assembling it must be ensured that confusion with another connection is not possible, for example with unambiguous marking.

## Testing

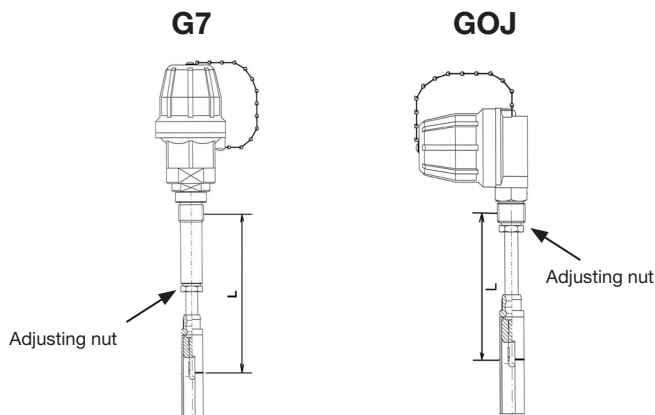
Try the sensor with a thermistor tester.

## Repair

Repair and rebuilding of probe is not allowed. Replace the probe with a new.

General provisions for the installation of explosion-proof electrical equipment must be observed (EN 60079-14 and EN 60079-17) in European countries affiliated to the European Union.

## ASSEMBLY TABLES



**The table indicates the distance from the temistor (not from the tip of the protective tube) to the thread of the connection part when mounted directly on the cistern roof. Check the dimensions carefully!**

### Tables - mounting dimensions

#### HORIZONTAL CYL. TANK

Cistern diam. mm	L measure acc. to fig. mm
1100	110
1200	120
1300	130
1400	140
1500	150
1600	160
1700	170
1800	180
1900	190
2000	200
2100	210
2200	220
2300	230
2400	240
2500	250

#### BOX-SHAPED AND VERTICAL CYL. TANK

Tank height mm	L, according to fig. mm	Tank height mm	L, according to fig. mm
2100	110	4200	215
2200	115	4300	220
2300	120	4400	225
2400	125	4500	230
2500	130	4600	235
2600	135	4700	240
2700	140	4800	245
2800	145	4900	250
2900	150		
3000	155		
3100	160		
3200	165		
3300	170		
3400	175		
3500	180		
3600	185		
3700	190		
3800	195		
3900	200		
4000	205		
4100	210		

**Declaration thermistor probe G7/GOJ**

Declaration of conformity

Thermistor probe type G7/GOJ

The above name product is considered to be "simple apparatus" according to the ATEX directive (2014/34/EU). The ATEX directive is not applicable to simple components that consists of well defined and simple semiconductor devices.

The probes design is verified according to the requirements of the ATEX-directive

EN 60079-0 (2018) Equipments - General requirements  
EN 60079-11 (2012) Explosive atmospheres - Equipments protected  
by intrinsic safety "i"

Intrinsically Safe Design : II 1 G Ex ia IIB T3

Electrical Parameters : Ci: 1 nF, Li: 10 uH, Ii: 200 mA  
Ui: 30,0 V, Pi: 1,25 W

Operating temperature: -25 to +50° C

Conditions for use : Must be connected to a barrier isolated from earth.  
With electrical parameters not exceeding the maximum  
value of the intrinsically safe output parameters of the  
connected barrier.

Afriso Ema AB declares under our sole responsibility, that the equipment specified  
above conforms to the above mentioned Directives and Standards.

Date: 2021-05-24

Signed:

  
Jonas Ericson Nihlström  
CEO

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