

# Potentiometric level indicator

## CoFox® CMG 01

NEW

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- Ideal for hygienic processes
- Measurements independent of pressure, temperature and density
- For liquid, electrically conductive media
- Automatic detection of the mounting position
- Error signal as per NAMUR recommendation



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**Application** For continuous high-precision measurement of levels in tanks and containers with liquid levels of 200 mm to 6,000 mm. Suitable for liquid, electrically conductive media. Ideal for use in hygienic processes.

**Description** CoFox® CMG 01 operates on the basis of the potentiometric principle. Measurements are unaffected by changes in pressure, temperature or density. The measuring range is freely adjustable over the entire probe length.

### Technical specifications

#### Measuring range

Probe length: 200 mm to 6,000 mm  
smallest adjustable range >10 mm (e.g. 0/11 mm)

#### Conductivity range

≥ 1 µS/cm

#### Measuring accuracy

± 1 % FS  
Resolution < 0.1%

#### Operating temperature range

Medium: -40/+150 °C  
Ambient: -40/+85 °C

#### Process pressure

150 bar at 20 °C  
25 bar at 150 °C

#### Process connection

Stainless steel 316 Ti,  
connection thread R¾

#### Probe

Stainless steel 316 Ti, Ø 6 mm,  
probe length 1,000 mm  
(min. length 200 mm / max. length 6,000 mm)  
Seal PEEK

#### Supply voltage

DC 8–30 V

#### Output signal

4 ... 20 mA, 2-wire

#### Housing

Rugged field housing with screw cover  
Stainless steel 303, Ø 50 mm  
Degree of protection: IP 68 (EN 60529)

#### Electrical connections

Cable gland M16 x 1.5

### Options

- Other process connections
- Hygienic process connections
- Other probe materials
- PTFE seals
- Other probe shapes
- HART protocol

DG: E	Part no.	Price €
<b>CoFox® CMG 01 mono probe</b> 200–1,000 mm please specify probe lengths, process connection R¾	53511	
Extra charge mono probe probe extension per 100 mm		
Extra charge probe pipe electropolished		
Extra charge mono probe probe extension per 100 mm electropolished		
<b>CoFox® CMG 01 coaxial probe</b> for non-conducting tanks, please specify probe lengths, for applications with limited space, process connection R1	53512	
<b>CoFox® CMG 01 dual probe</b> rigid, please specify probe lengths, for non-conductive tanks, process connection G2	53513	
Extra charge coaxial/dual probe, rigid, probe extension per 100 mm		