

# Electromechanical Level measurement Silopilot FMM50

For continuous level measurement even in high bulk solids silos or bins



More information and current pricing:

[www.mesc.endress.com/FMM50](http://www.mesc.endress.com/FMM50)

## Benefits:

- High reliability level measurement of powdery, fine-grained or coarse-grained bulk solids
- Safe measurements in extremely dusty environments
- Fully electronic digital minimum fail-safe control, therefore no running down of the sensor weight into the silo outlet and no risk to the conveying systems
- Quick menu-guided local operation using a 4-line text display
- High performance three-phase engine (traction power up to 500N) using a single-phase supply voltage by employment of a converter, therefore simple electric supply
- Optional design with certification for application in areas subject to dust explosion hazard zones 20, 21 and 22 (measuring zone) or zones 21 and 22 (device zone), category 1/2D

## Specs at a glance

- **Accuracy** +/- 5 cm
- **Process temperature** -20°C ... +230°C (-4°F ... 446°F)
- **Process pressure absolute / max. overpressure limit** 0.8 ... 3 bar (11.6psi...43.5psi)
- **Max. measurement distance** 70m (230ft)
- **Main wetted parts** Aluminium, Steel, Stainless steel

**Field of application:** Silopilot FMM50 is an electromechanical level system. Depending on the sensing weight, the level can be measured in bins or silos with dusty, fine-grained or coarse-grained bulk solids or in tanks with liquids.

---

## Features and specifications

---

### Continuous / Solids

**Measuring principle**

Electromechanical

---

**Characteristic / Application**

Not affected by characteristics of solid medium

Mesuring range: 70m

---

**Specialities**

Switch to indicate need of maintenance (predictive maintenance)

---

**Supply / Communication**

180 ... 253 V, 50/60 Hz

---

**Accuracy**

+/- 5 cm

---

**Ambient temperature**

-40°C ... +70°C

(-40°F ... 158°F)

---

**Process temperature**

-20°C ... +230°C

(-4°F ... 446°F)

---

**Process pressure absolute / max. overpressure limit**

0.8 ... 3 bar

(11.6psi...43.5psi)

---

**Main wetted parts**

Aluminium, Steel, Stainless steel

---

**Process connection**

Flange DN100 PN16 / 4"

---

**Blocking distance**

Top: 500 mm (20 ")

---

Continuous / Solids

**Max. measurement distance**

70m (230ft)

---

**Communication**

0/4...20 mA

---

**Certificates / Approvals**

ATEX

---

**Design approvals**

EN10204-3.1

---

More information [www.mesc.endress.com/FMM50](http://www.mesc.endress.com/FMM50)