Electromechanical Level measurement
Silopilot FMM50

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

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 / max. overpressure limit** 0.8 ... 3 bar abs. (11.6psi ... 43.5psi abs.)
- **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

<table>
<thead>
<tr>
<th><strong>Measuring principle</strong></th>
<th>Electromechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Characteristic / Application</strong></td>
<td>Not affected by characteristics of solid medium</td>
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<tr>
<td>Mesuring range: 70m</td>
<td></td>
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<tr>
<td><strong>Specialities</strong></td>
<td>Switch to indicate need of maintenance (predictive maintenance)</td>
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<tr>
<td><strong>Supply / Communication</strong></td>
<td>180 ... 253 V, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>+/- 5 cm</td>
</tr>
</tbody>
</table>
| **Ambient temperature** | -40°C ... +70°C  
(-40°F ... 158°F) |
| **Process temperature** | -20°C ... +230°C  
(-4°F ... 446°F) |
| **Process pressure / max. overpressure limit** | 0.8 ... 3 bar abs.  
(11.6psi ... 43.5psi abs.) |
| **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.endress.com/FMM50](http://www.endress.com/FMM50)