

DigPilot Sensor Datasheet

DigPilot wireless calibrated two-axial accelerometer sensor for excavator guidance use, with angle accuracy of $\pm 0.2^\circ$ or better.



Options

- Three-axial magnetic compass
- Two-channel 635 nm (red) laser receiver

Enclosure

- Polycarbonate and polybutylene terephthalate
- Resistant to hydraulic fluids, diesel and UV exposure
- Ingress Protection: IP67
- Stainless charging pins

Radio

- Range: Over 50 m line-of-sight
- Frequency: 2.4 GHz license-free ISM-band
- Proprietary packet radio protocol

Battery

- Operating time: Up to four weeks with normal use
- Material: Lithium-ion polymer
- Nominal capacity: 5600 mAh
- Charging time: Overnight
- Expected battery life: Beyond 3 years



Sensor with window for two-channel laser receiver

Ambient temperature

- Operating: -20°C – $+60^\circ\text{C}$
- Charging: 5°C – $+35^\circ\text{C}$
- Long-term storage: -20°C – $+35^\circ\text{C}$

General

- Connectors: 2 charging pins (5.5 V DC input, max 800 mA, no polarity)
- No switches or indicators
- Dimensions: 112 mm (W) x 68 mm (D) x 48 mm (H)
- Weight: 230 g (standard sensor)

Compliance

The sensors complies with the European EN 60950-1, EN 300 328, EN 301 489-1 and EN 301 489-17 standards, the European 2002/95/EC (RoHS) directive, and Topcon Machine Control Environmental Specification SR-007 and SR-009.



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Values are subject to change without notice.