MS5837-30BA WATERPROOF DIGITAL PRESSURE SENSOR

- **Enable design flexibility with ultra small size and precise outputs**
- **Provide protection from sunlight and corrosive fluids with an antimagnetic gel filled cap**

Expanding the digital pressure sensor module family, TE Connectivity (TE) introduces the high linearity and low power MS5837-30BA waterproof digital pressure sensor. Capable of a water depth resolution of 2mm, this factory calibrated, absolute sensor offers different operation modes that allow the user to optimize for conversion speed and power consumption. The water resistant MS5837-30BA can be interfaced to virtually any microcontroller.

BENEFITS

- Provide protection from sunlight and corrosive fluids with an anti-magnetic stainless steel cap with gel filling
- Enable design flexibility with ultra small size and precise outputs
- Optimize conversion speed and power consumption with different operation modes
- Protect from harsh, underwater applications with a ceramic-metal package

APPLICATIONS

- Mobile water depth measurement systems
- Diving computers
- Dive watches

TARGET MARKETS

- Consumer Devices

DISTINGUISHING CHARACTERISTICS

- High resolution module: 0.2 mbar
- Low power: 0.6 µA (standby < 0.1 QA at 25°C)
- Sealing designed for 1.8 x 0.8mm o-ring
- Water resistant to 2mm of water

Pressure:
- ADC: 24 Bit
- Range: 0 – 30 bar
- Resolution: 0.2 mbar
- Accuracy 0°C to +40°C, 0 to 6 bar: -50 to +50 bar
- Accuracy -20°C to +85°C, 0 to 6 bar: -100 to +100 mbar

Temperature:
- Range: -20°C to +85°C
- Resolution: <0.01°C
- Accuracy at 25°C: 31°C

LEARN MORE

MS5837-30BA Sensor Landing Page
MS5837-30BA Video
MS5837-30BA Sensor Data Sheet
Sensors Overview Page
Download Parts List

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