

Comparison Table: BME680 vs. BME688

Feature	BME680	BME688
Primary Focus	General Air Quality (IAQ)	Specific Gas Detection & AI
Gas Sensor Type	MOX (Metal Oxide)	
AI Integration	None (Software-based IAQ only)	Integrated AI support (BME AI-Studio)
Gas Detection	Broad VOCs (Volatile Organic Compounds)	VOCs + VSCs (Volatile Sulfur Compounds)
Gas resistance range	Standard	Extended (for better discrimination)
Humidity Stability	Moderate cross-sensitivity (~15-25% error)	High stability (<5% error in high humidity)
Software Support	Basic BSEC library	BSEC + BME AI-Studio
Replacement Type	N/A	Backward compatible "Drop-in" replacement

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Last update: **2026/05/12 20:49**

