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Stefanos Orfanos, Ayşe Şahin* (ayse.sahin@wright.edu) and **Ilie Ugarcovici**. *Classifying general odometers: spectrum, geometric group theory, and orbit equivalence*. Preliminary report.

We discuss odometer actions of semi-direct product groups of the form $G = \mathbb{Z}^d \rtimes_A \mathbb{Z}$ with $A \in GL_d(\mathbb{Z})$. We discuss their classification in terms of the geometry of the underlying subgroups, their spectrum, and their continuous topological orbit equivalence class. (Received February 04, 2018)