What is claimed is:

1. An elevator system comprising an identifier provided in a shaft of an elevator, and a detection unit provided on a car of the elevator to detect the identifier, the system comprising:

a storage unit that stores heights of floors of the elevator;

an atmospheric pressure measuring unit provided on the car to measure atmospheric pressure at a height where the identifier detected by the detection unit is located;

a calculation unit that calculates atmospheric pressure at each floor of the elevator, based on the atmospheric pressure at the height where the identifier is located, and the heights of the floors stored in the storage unit; and

a determination unit that determines a position of the car from the atmospheric pressure at each floor calculated by the calculation unit, and the atmospheric pressure measured by the atmospheric pressure measuring unit,

wherein

the identifier is provided in the shaft near a landing on a floor through which the car is highly likely to pass, and

when the detection unit detects the identifier, the calculation unit calculates atmospheric pressure corresponding to the height of each floor stored in the storage unit, based on the atmospheric pressure measured by the atmospheric pressure measuring unit, and updates atmospheric pressure at each floor stored in the storage unit.

2. The elevator system according to claim 1, wherein

the identifier is a magnet, and has a different polarity depending on a place where the identifier is provided.

3. The elevator system according to claim 1, further comprising:

a communication interface that outputs information on an abnormality in the identifier provided in a predetermined height range or the detection unit when the detection unit does not detect the identifier in the height range.

4. A car position determination method of determining a position of a car of an elevator, based on detection of an identifier provided in a shaft of the elevator by a detection unit provided on the car, the method comprising:

measuring, by an atmospheric pressure measuring unit provided on the car, atmospheric pressure at a height where the identifier detected by the detection unit is located;

calculating, by a calculation unit, atmospheric

pressure at each floor of the elevator, based on the atmospheric pressure at the height where the identifier is located, and heights of floors stored in a storage unit;

determining, by a determination unit, the position of the car from the atmospheric pressure at each floor calculated by the calculation unit, and atmospheric pressure measured by the atmospheric pressure measuring unit,

wherein the identifier is provided in the shaft near a landing on a floor through which the car is highly likely to pass, and

when the detection unit detects the identifier, the calculation unit calculates atmospheric pressure corresponding to the height of each floor stored in the storage unit, based on the atmospheric pressure measured by the atmospheric pressure measuring unit, and updates atmospheric pressure at each floor stored in the storage unit.