CLAIMS

[Claim 1]

An electric lock device installed in a door of a home delivery box, comprising:

a power supply section provided independently for each home delivery box;

an electric lock section that unlocks the door using electric power supplied from the power supply section;

a communication section that communicates with a portable terminal carried by a user of the home delivery box;

a storage section that stores a condition for unlocking;

a control section that compares information received by the communication section from the portable terminal with the condition for unlocking stored in the storage section, wherein the control section issues an unlock command to the electric lock section when the information received from the portable terminal matches the condition for unlocking; and

a remaining battery charge determination section that determines remaining battery charge in the power supply section, wherein the remaining battery charge determination section outputs a determined result to the control section;

wherein when the remaining battery charge in the power supply section falls to or below a first threshold value, the control section generates a battery replacement signal and transmits this signal from the communication section to the portable terminal, and

wherein when the remaining battery charge in the power supply section falls to or below a second threshold value which is lower than the first threshold value, the control section generates an unavailability signal and transmits this signal from the communication section to the portable terminal.

[Claim 2]

A home delivery box incorporating the electric lock device according to claim 1.

[Claim 3]

A home delivery box system configured by arranging a plurality of the home delivery box according to claim 2 in at least one of a vertical direction and a horizontal direction.