

Abstract

An air conditioner comprising one outdoor unit (1) and a plurality of indoor units (2) connected to the outdoor unit (1) via three connection lines (3) including commercial power supply lines (3a) (3b) in parallel with each other, wherein the outdoor unit (1) includes an outdoor micro-computer (14), an outdoor D.C. power supply (11), an outdoor transmission photo-coupler (15), an outdoor reception photo-coupler (16), and a termination resistance (17) connected in parallel with the outdoor reception photo-coupler (16), and each indoor unit (2) includes an indoor D.C. power supply (21), an indoor micro-computer (22), an indoor reception photo-coupler (24), an indoor transmission photo-coupler (23), and a positive temperature characteristic thermister (25) connected in series with the indoor transmission photo-coupler (23), so that components having nothing to do with ordinary indoor-outdoor communication operation are not required, and a disadvantage such that transmission and reception circuit components are destroyed or snapped is prevented from occurrence even when miswiring is realized.