

Abstract

A communication system has: a controller that is connected to a plurality of field devices for inputting and outputting an analog signal and a digital signal; and
5 a system computer that is provided in an upper hierarchical layer of the controller, and communicates with one of the plurality of field devices by using the digital signal through the controller. The communication system further has a path establishing section that
10 selects a field device for communication from the plural field devices, and establishes a virtual communication channel to be a communication path for performing one-to-one communication with the selected field device via the system computer and the controller.

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