ABSTRACT

Efficacy background of some experiment about remote controlling based on computer network and also base on the wireless connection, hence writer wish to design a system of monitoring and operation which can be accessed by peripheral ponsel by using WAP technology. This system in the form of a controller software which incircuit with the telephone seluler and a set system of data aquisition. This system adopt the technology of WAP over CSD GSM, where designed a personal WAP server so that user’s HP can incircuit to operation system. System of WAP over CSD GSM base on the connection-oriented, its intention is only one user’s HP which can incircuit to server in one time, and communications channel will be opened only on moment when there is request from user. Application of system at miniplant PCT-14 in Laboratory of Instrumentation Engineering at Physics Engineering Department ITS by varibel control is accelerating gas flow. Input from HP in the form of proportional gain (Kp), integral gain (Ki) and also set point (SP). Variable control later then manipulation by controller software using Delphi 6.0 and later then send the sinyal conduct to plant. User can access data result of operation, that is variable process and error through HP. From examination result got time of dial-in connection equal to 42,693 second reckoned from emphasis of knob koneaksi at HP until first page (frontpage.php) come up. And time of data delivery equal to 4,138 second, reckoned from a moment have entered the variable control the (Kp, Ki, SP) until its result come up in screen monitor of the PC (at controller software).

Keyword: WAP, control, monitoring, handphone.