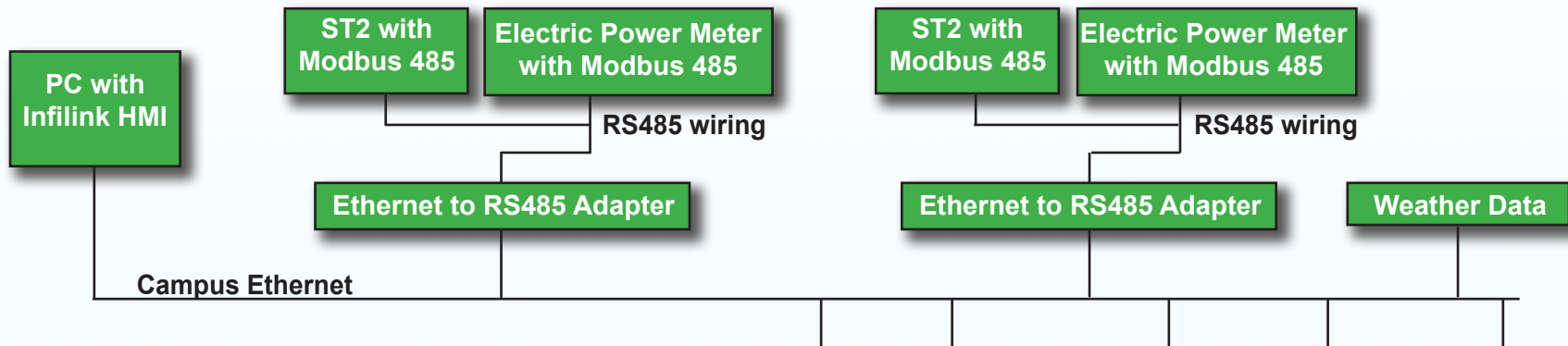


Infilink HMI and SUPERtrol II Monitor Utilities on University Campus



KEP's Infilink HMI software and SUPERtrol II flow computers are being used to collect data from 26 buildings on the campus of a Canadian University.

The monitoring system includes 15 Ethernet-to-RS485 adapters, 26 SUPERtrol II flow computers, and 20 electric power meters. Some of the Ethernet-to-RS485 adapters have multiple flow computers and power meters connected.

Weather data is collected by Infilink from a CSV file on the network. The CSV file is written bi-hourly by an on-campus weather station.

Steam and electrical consumption are trended within Infilink, and compared against weather data. Alarming is also being done by monitoring various steam temperatures/pressures/flow rates, and also by analyzing electrical power factor, phase loss, etc.

A customized implementation of the campus map was created using the Infilink HMI development package to highlight key alarm conditions. The user simply clicks on the building of interest to open up real-time meter readings, trend charts of energy usage for that building, and other system information. The low cost of the Infilink HMI package allowed the integrating contractor to complete the customized presentation of data for less than \$10,000.

The university's goal for the utility monitoring system is to reduce energy costs and provide a quick response to any electrical or steam failures on the campus.

