Data Sheet

VCN Ventilation Control Network

The Blue River VCN Ventilation Control Network is designed to control the ventilation requirements of medium to large buildings. It measures temperature and CO_2 levels and operates ventilation units to ensure comfortable internal conditions using natural ventilation.

Flexible programming allows full functionality to meet special requirements. As a general purpose control system it can incorporate control of heating, lighting, security or other functions.

The Ventilation Control Network is based on a powerful programmable logic controller (PLC) which communicates with a network of input / output (I/O) modules. This allows a large system to be controlled from a central point while using a minimum amount of cabling. In essence a central controller operates with distributed inputs and outputs.

The central controller has a user interface (HMI) to facilitate operation by the client. A range of HMIs is available from simple keyboard displays to touch screen graphic terminals.

Various I/O modules are available for use on the network but the 5AI / 2AO analogue module is the most frequently used module for ventilation systems.

(Please see separate data sheet for functionality)

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Features

If more inputs and outputs are required multiple I/O units can be used. Up to 96 analogue inputs can be accommodated on a single loop system. For larger systems multiple loops can be used.

The system is programmed via a laptop computer using standard Mitsubishi software.

A Modbus interface is available so that information can be passed to a Building Management System for the purpose of monitoring.

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