



SENTRY

GAS MONITORING SYSTEM

MODBUS COMMUNICATIONS INTERFACE

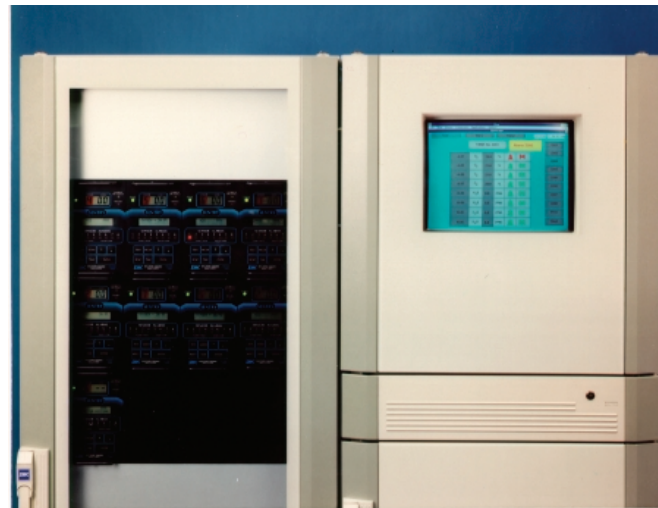
The Sentry Controller Modbus Communications Interface enables Sentry to easily communicate with PC based Distributed Control Systems and graphic based man-machine interfaces and via the FieldServer Technologies bridge to a wide range of other protocols.

The Sentry system from Sierra Monitor offers comprehensive, cost effective solutions to many specific gas management requirements. From a simple 4-point monitoring system to a complete plant wide hazardous gas monitoring system with hundreds of gas detection points, Sentry meets the need.

With the Modbus communications interface Sentry can easily interface with a PC-based Distributed Control System to provide a graphical display of hazardous gas conditions in the plant. PC-based DCS software in conjunction with Sentry provides the operator enhanced data acquisition, alarming and alarm management, historical trending, distributed architecture, and integration into the plant's distributed control system.

Sentry's Modbus communication interface provides over 620 different parameters accessible by the PC-based DCS software, including:

- gas concentration
- alarm setpoints
- sensor diagnostic messages
- historical reset time/date
- power up/down time/date
- trouble alarm time/date
- minimum/maximum values plus time/date
- high/low alarm latch/non-latched
- auto calibration enabled
- calibration status/coefficients
- calibration concentrations
- calibration due date
- zone option enabled
- operate mode



Sentry will reliably monitor for hazardous gases in the plant and provide instant visual and audible alarm (through integral relay contacts). With the optional battery backup, Sentry will provide continuous monitoring of gas risks in the plant even if AC power or linkage to the PC is temporarily terminated.

With the built-in RS-232 output and the optional RS-232/RS-485 converter, you can link up to 32 Sentry controllers to a PC, providing up to 256 gas monitoring points per system.

CONTROLLER

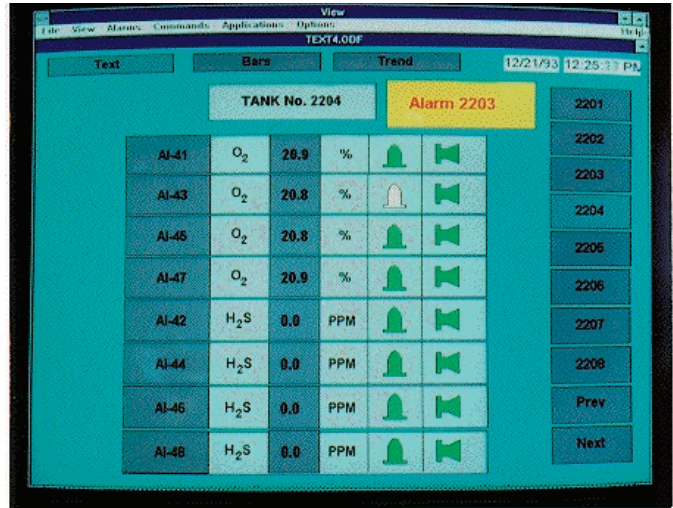
MODBUS COMMUNICATIONS INTERFACE

CONTROLLER

With the Modbus communications option for Sentry and a graphics based man-machine software program a variety of graphic screens can be developed that will make it easy for the operator to efficiently monitor hazardous gas risks in any plant. Usually the system will include a main screen providing an overall view of the plant. This screen is linked to individual zone displays, historical and real-time trend charts, bar charts indicating gas concentration and alarm levels, and more.

Using the optional FieldServer Technologies Bridge the user can convert from the Modbus RTU output to a wide variety of other protocols including DF1, DH+, Profibus, and many more.

FieldServer Technologies is a division of Sierra Monitor Corporation. The FieldServer is a protocol translator to link the Modbus RTU output to other protocols and networks. More information on FieldServer products can be found at www.fieldserver.com



Ordering Information

5387-50 Modbus Communications Interface



© 2002 Sierra Monitor Corporation