MARK 3 SAMPLING SYSTEM

SAMPLING SYSTEM

APPLICATIONS

- Toxic Gas Monitoring
- Gas Leak Detection
- Air Pollution
- Fermentation Monitoring
- Emission Monitoring

OPTIONS

- 19 Inch Rack Mount Slides
- TCIP Output
- Modbus

FEATURES

- Faster Processor
- On Board Hi Res Analog Ins
- 16 Valves in One Rack
- Digital Diagnostics
- Remote Operation Capability

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Intelligent Sampling System

MARK 3

DESCRIPTION

The California Analytical Instruments Mark 3 Intelligent Sampling System is a third generation single board computer controlled industrial sequencer. The system has been developed over many years as higher specifications components have been added to the proven single board computers on the Mark 1 and Mark 2 Samplers. These have been in production for over 15 years. CAI specialize in custom building these systems and are able to modify and write special software to communicate and provide customer enhancements easily and quickly. Fully integrated systems complete with analyzer, cabinets, sample transport and conditioning are available for many applications.

METHOD OF OPERATION

The California Analytical Instruments Mark 3 Intelligent Sampler, when connected to a suitable gas analyzer(s) or point sensor(s) forms a multipoint area monitoring system which can monitor a wide area by sequentially drawing gas to the analyzer(s) and reading the concentration. The CAI unit has alarm and reporting software that has been developed over many years.

The unit can take data from up to 6 analyzers/sensors via analog, comms Ethernet and many software drivers that have been written.

The Mark 3 is supplied with a wall mount or optional 19" Rack mount for 4,8,12,16, valve switching. Larger systems can be supplied by adding extra 19" racks of 16 valves, to a total of 64 (4 racks)

The CAI unit has a large VGA touch screen display allowing graphic and operator input functions to be changed or added without mechanical changes to the rack.

SPECIFICATIONS

FLUIDICS

- Channels 4 to 16 Valve - Expandable to 64
- Connections 6 mm or 1/4 OD Connections
- Wetted Parts PTFE, PVDF, 316ss, Nylon

MECHANICAL

- Size 19 3U racks 420mm Deep
- Weight 10Kg / Rack

ELECTRICAL

- Power 90-240 VAC 100 Watt
- Display 1/4 VGA Touch screen
- Connectors Quick Disconnect Wiring Terminals

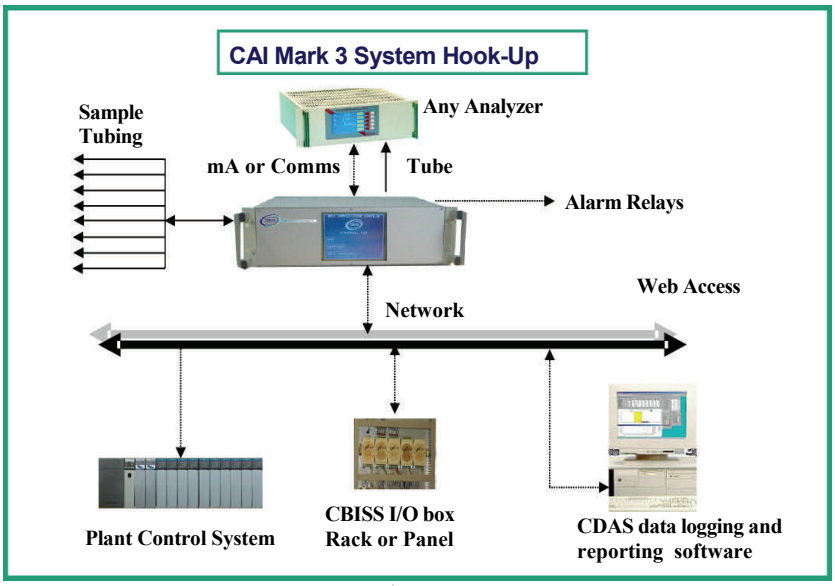
COMMUNICATIONS

- 2 x RS232, 8 Single Ended (10 bit) Analog Inputs, Alarm Relays
- Modbus
- Ethernet

EXPANSION and I/O

- Direct Output to CDAS Trending and Reporting Software
- Direct to CAI I/O Modules—-(16 bit Differential Analog In-puts, Analog Outputs, Sensor Inputs, Extra Relays)

Specifications subject to change without notice.



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