



Leading Software. Leading Vision.™

8832 Data Controller

More Than 15 Years of Field-Proven Reliability
Plus the ESC Reputation for Support and Service

Improved CEMS technician productivity

ESC data controllers are specifically designed to perform the CEMS operations you need. In addition, they provide the CEMS technician with a local interface to initiate calibrations, modify calibration sequences, troubleshoot CEMS operation, and modify channel assignments and input/output settings.

Complete regulatory compliance control for the environmental staff

ESC data controllers provide the environmental staff with the ability to modify the configuration of the controllers and to address changes to federal, state or local compliance requirements. Controllers offer full functionality and can be configured via a menu driven interface. There is no need to modify ladder logic or computer code.

Information you need to optimize compliance

As the backbone of our DAS, ESC controllers provide plant operations staff with the real-time access to compliance calculations needed to optimize plant operations.

Minimizes the risk of “out of control” data

ESC data controllers automate the control of the CEMS to minimize “out of control” data by providing calibration sequencing and data storage independent of DAS computer operations.

Eliminate loss of compliance data

ESC data controllers are designed to acquire and store CEMS data to ensure that no data is lost in the event of a communication failure with the DAS computer.



Environmental Systems Corporation



ESC Data Controllers come with the experience and support that you need.

Purchasing a piece of hardware, like an 8832, is a big investment so ESC offers hardware support and maintenance.

ESC Data Controllers come with a 90-day guarantee and extended protection can be purchased through the ESC|DASProtect service. DASProtect insures you through the life of your DAS and offers unparalleled service in the industry.



CPU	Motorola MPC860 PowerQUICC
DataBus	32 bits
Speed	50 MHz
EPROM	512KB - boot functions
FLASH	4 MB - code storage
DRAM	32 MB - operational data and code execution
SRAM	2048KB - configuration and long-term data
EEPROM	8 KB - system settings
Ethernet Port	TCP/IP; 10 Mbps - code download, configuration download, data polling, MODBUS TCP
Serial Port 0	Optically isolated RS-232 or optional RS-485; 300 to 115.2k baud, MODBUS
Serial Port 1	Optically isolated RS-232 or optional RS-485; 300 to 115.2k baud, MODBUS
Serial Port 2	Optional RS-232; 300 to 115.2k baud
Serial Port 3	Optional RS-232; 300 to 38.4k baud
Printer Port	Optional; Centronics general purpose
PCMCIA Slot	Optional Internal - extended configuration and long-term data storage (additional 2MB)
LCD	16 colors; 640x240
Channels	Up to 99 total
Calibrations	Configure up to 64 sequences with 16 phases each, configurable storage time per sequences
Alarms	Up to 64 total (average + calibrations)
Digital Events	Up to 32 total (timed + digitally-triggered)
Expansion Cards	Up to 12 expansion cards can be installed in the Base Model 8832

I/O Expansion Slots - Up to 12 Available

Expansion Card Options (8 points per card)

Analog Current Input - 4-20mA current loop available, differential with programmable gain amplifier

Analog Voltage Input - +/- 100mV, +/- 1V, +/- 5V, +/- 10V full scale

Digital Input - Detects contact (relay) closures or voltage-to-ground transitions (to 24V); optional software debounce

Isolated Digital Input - Detects open-to-voltage transitions (24V to 120V, AC or DC); optional software debounce available

Digital Output - Latching-coil relays; rated load: 5A @ 250VAC, 5A @ 30VDC

Analog Output - 4-20mA current loop outputs; 12-bit resolution

Physical Characteristics

Dimensions - 17.00w x 5.25h x 14.00d inches (43.2w x 13.3h x 35.6d cm) – 19-inch rack

Weight - Less than 15 pounds (6.8 kg)

Power - Universal 110/220VAC; 50/60 Hz; less than 60 Watts

Battery Backup - 90 mA-hour rechargeable lithium (30 days minimum backup time)

