AnchorPLC

Key Features:

- IEC-61131 Ladder and Structured Text Execution
- Huge Programming Space
- High Speed
 Execution: PIDs in
 less than 0.2
 Milliseconds.
- Extensive Special Function Block Library – in Structured Text.
- Direct Digital I/O Reads and Writes
- Multi-Tasking
- Supports access to external Modbus Devices, coils and registers.
- Full math functionality; SQRT, EXP, POWER, MULT, DIV, LOG10, LOG, SIN, COS, TAN, etc.
- Modbus Compatible
- Modbus Master & Slave
- Modbus RTU & TCP

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Data Sheet

Description

The *Anchor*PLC[™] system is a complete execution run-time system for embedded control. The system provides for logic execution on OPTO 22® brains for control programs developed in IEC 61131-3 Ladder and Structured Text. *Anchor*PLC offers an efficient execution environment, with full math function, extensive Modbus support, easy-to-use digital and analog I/O. Full floating point PIDs execute within 0.2 milliseconds on the OPTO 22 SNAP-ADS Ultimate Brain® (yes - a fraction of a millisecond).

High speed timers and counters, with 1 millisecond resolution; special direct digital I/O for reading and writing discretes for high speed precision applications are found in the *AnchorPLC* solution. The system also provides execution of customer defined Special Function Blocks, written in either the Ladder or Structured Text Languages.

The system reads and writes serial RS-232 or RS-485 to support custom protocols. Binary and text are supported. An extensive set of text parsing functions and text generation is facilitating special protocol applications.

Modbus support includes Modbus/RTU, Modbus/TCP, Slave and Master. Daniels floating point register access is provided.

Retentive memory is stored in battery backup up RAM. Reads and writes are done at the high-speed RAM memory speeds.

The system clock is synchronized with an onboard real-time clock that provides battery backup-up operation even through extended power-off cycles. Applications can read, use and update the real-time clock.



Applications from simple to extremely complex run within *AnchorPLC*'s huge programming space. The system has easy-to-use multitasking capability. Our customers have built full hydroelectric power plant control systems with complete simulation, running on the OPTO 22 Ultimate Brain with *AnchorPLC*.

The *Anchor*PLC system has been hosted on several operating systems: Windows NT®, Windows® 2000, Nucleus RTOS (OPTO 22 UIO), Linux and several others. Any application that is built to run on the *Anchor*PLC system will run on future embedded systems, providing a technology upgrade path for those who develop within the *Anchor*PLC environment.

AnchorPLC has been running in mission critical applications since 1993 on Windows NT servers and the same reliable run-time engine has been delivered to critical applications on OPTO 22 Ultimate brains over the last three years.

The custom control programming of IEC 61131-3 and the extensive Modbus capability makes *AnchorPLC* a great solution where performance or IEC programming is a must.



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