

Designed and built for ease of installation and startup

Overview

The Network 3000 product line began with the introduction of the DPC 3330 in 1988. This spawned a full family of RTU and flow measurement products that have retained their status as the RTU of choice by many loyal customers. However, with the growing popularity of ControlWave®, from Emerson Process Management, the latest generation hybrid PLC/RTU products, customers have expressed interest in an inexpensive migration path to allow them to realize all of the benefits of the new ControlWave technology without replacing their entire SCADA system.

The 33XX Retrofit Panel was designed with this goal in mind. The Retrofit Panel maintains the same footprint as the 3305, 3310, six slot 3330 or 12 slot 3330 it will replace. You can maintain your investment in I/O, wiring, cabinets, and enclosures, communication infrastructure, and application program development.

Benefits

ControlWave co-exists in the same network with 33xx controllers

- Fast installation
- Reduced startup and point test cost
- Fused I/O points
- Eliminates the need for in-house panel design and fabrication
- Design standardization minimizes cost
- Avoids delay in custom panel quoting
- All components and options are tested together allowing trouble-free startup
- Standardizes the maintenance effort to reduce maintenance cost
- Faster performance allows more demanding applications
- More memory allows larger applications and data storage
- Lower power consumption minimizes solar and battery requirements
- ControlWave Designer offers increased programming flexibility
- Historical data is maintained on application download for higher data integrity
- CW_XX dual Ethernet option allows network segmentation without expensive external routers
- Enhanced security protection
- Buffered communication ports enhance throughput and allow multiple slave ports

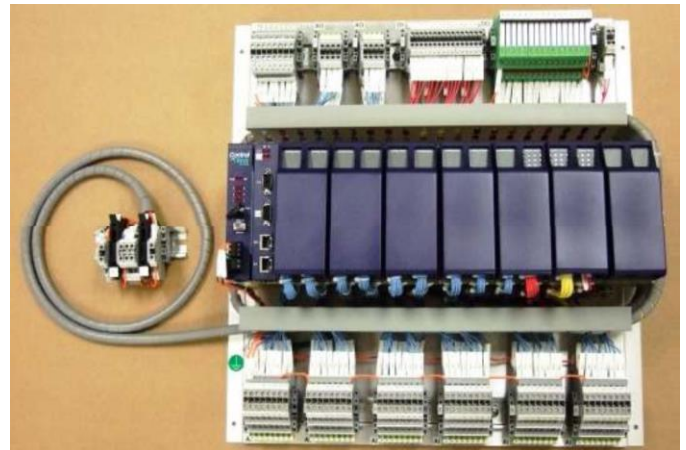
The Retrofit solution

The 33XX series retrofit product consists of a mounting plate with the same footprint as a 6 or 12 slot 3330, 3305 or 4 slot 3310 RTU. The plate will allow mounting of a ControlWave Micro RTU and a set of termination adaptors to match the (high density) I/O in the installed 33XX RTU. The set of termination adaptors allows you to remove the pluggable terminal blocks from an existing installed 3310 or 3330 RTU and plug these into the termination adaptor rather than removing and rewiring all of the field device wires. The ControlWave Micro I/O will contain standard, currently available Remote Termination I/O modules. The termination adaptors also provide a termination header compatible with the Phoenix Remote

33XX to ControlWave® Micro Retrofit Panel Kit

Custom Engineered Solution

Termination cables currently available for ControlWave Micro I/O. Note that older low density 33xx I/O cards require rewire from old block to new terminations.



ControlWave Micro Features

- 32 bit, 150 MHz, ARM CPU
- Real-time clock
- Memory battery backup: 7000 hours
- Program execution: 4 MB SD RAM
- Data Memory : 1 MB SRAM battery backed memory
- File and Historical Archive memory: 16 MB onboard flash
- One 3 pin Utility Port for Flash downloading system firmware
- LED status indicators – 6 failure status LEDs, Watchdog and Idle and communication LEDs
- Conforms to DPC3330, 3335 and RTU3310 chassis design
- Supports most existing 33XX I/O cards
- ControlWave Designer IEC 61131-3 programming
- ControlWave Designer ACOLL III function block library
- 16MB of Flash storage memory
- Permit access to onboard FLASH RAM (33XX has FLASH for boot project only)
- Optional one or two 10/100 Mbit Ethernet ports with RJ-45 connectors (CW_30 and CW_35 only)
- Ethernet port isolation: 500 Vdc
- Up to four serial ports
- New Protocols – DNP3.0 & CIP

Software Migration

In order to preserve most of your ACCOL program development time and expense, the ACCOL Translator utility will allow application program conversion to ControlWave Designer IEC 1131 Structured Text. For most applications, the ACCOL Translator will reduce the conversion effort by up to 90% vs. rewriting the program.

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To properly take advantage of the ACCOL Translator, one must know ACCOL, ControlWave Designer, understand the ACCOL application and have access to the ACCOL source file. Once the application is translated, it typically requires some degree of editing, depending on the complexity of the program, and thorough testing prior to deployment on-site.

Emerson Process Management can provide you with training to do the translation or you can rely on our Application Support Group to do the translation for you.

Example of a typical custom engineered solution

