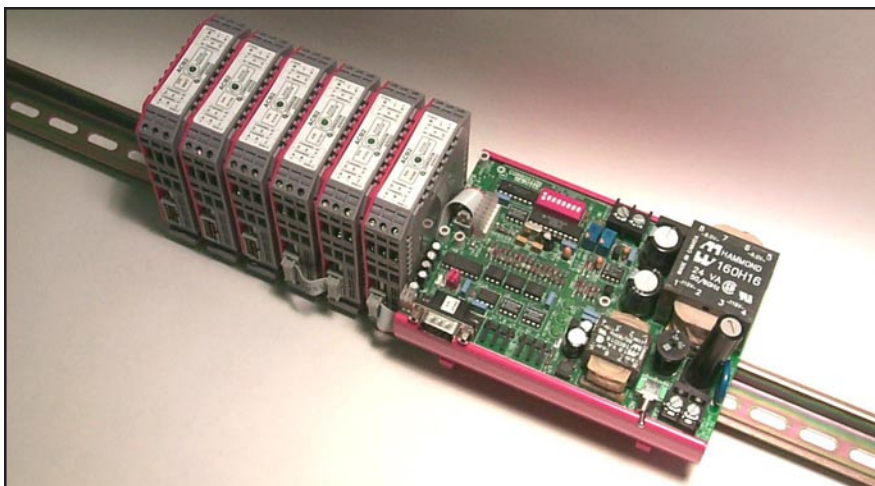


ACB2

ANALOG CAPTURE BOARD PRODUCT SERIES (ACB2, ACB2I, ACB2PS, DAB2, & RB3) Remote Monitoring Electronics

The ACB2 product series was developed specifically for the monitoring and control of electrochemical corrosion prevention systems. The operating efficiency of these systems is maximized by the early detection and correction of periodic system control problems. Benefits include:

- Continuous monitoring of electrochemical corrosion control systems by Corrosion Service or the owner.
- Instant 24 hour access to monitored data is available remotely via telephone.
- Data is accessed, stored, and manipulated to create user-defined reports via a PC running our custom RMS software.
- Security is ensured by password entry.
- Easy installation & start up.
- Cost effective design and operation.



The ACB2PS (shown above with a block of ACB2's) is a multifunction power supply for use with ACB2, DAB2, and RB3 data acquisition modules. In addition to power, this device provides an isolated serial interface and network address control.

ACB2 • Analog Capture Board

The ACB2 is a four channel analog to digital converter, specifically designed to capture “on” and “instant off” reference potentials in an electrochemical corrosion prevention system.

ACB2I • ACB2 Isolator

The ACB2I provides >50Vdc isolation of rectifier current output and structure sense connections. Without isolation, a voltage drop error in the current output cable may be superimposed on collected data.

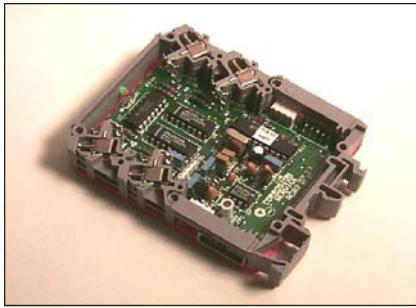
The **CMRB2 (Common Mode Rejection Board)** may also be used in combination with or in lieu of the ACB2I to provide an additional ± 15 Vdc rejection. Contact us for details.

DAB2 • Digital to Analog Board

The DAB2 remotely controls and monitors the output current and voltage of any rectifier, supplying an external control voltage in the range of ± 2 V.

RB3 • Relay Board

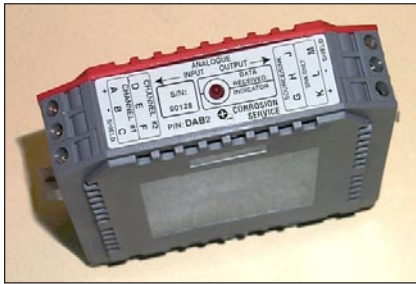
The RB3 is an 8 differential channel, multifunction relay module. It can be configured as a multiplexer to connect multiple data sources into a single input device or as a remotely controlled contact to trigger another device. It may also be used to disconnect coupons from the structure in a corrosion prevention system or trigger higher ampacity relays for rectifier interruption.



ACB2 • Analog Capture Board



ACB21 • Analog Capture Board Isolator



DAB2 • Digital to Analog Board



RB3 • Relay Board

COMPONENT SPECIFICATIONS

ACB2PS • Analog Capture Board Power Supply

Mass: 701g

Dimensions: 153mm x 104mm x 86mm

OPERATION (AC Input):

AC Input Range Switch	AC Input MDL Fuse*	AC Input Voltages (50/60 Hz)	
		Minimum	Maximum
110	1/4 Amp	100	135
220	1/4 Amp	200	255

*Or equivalent time delay fuse.

Communications: The ACB2PS can be connected to either an RS-232 or RS-485 serial port or may be interconnected to create a network.

Subassemblies: Each of the following fully compatible components was designed specifically for use with the ACB2PS. They may be coupled with the Power Supply in conjunction with or independent of each other. Groups of individual components may also be networked together over long distances. Each component is supplied as a rail mount module with screw clamp and/or two-piece terminals for ease of installation & removal.

ACB2 • Analog Capture Board

- Mass: 88g
- Dimensions: 100mm X 75mm X 23mm
- ± 2.4 Volt input
- 183 μ V resolution (± 1 mV accuracy full scale)
- 50 & 60 Hz Rejection
- Transient Voltage Suppression
- Expandable in 4 channel increments to hundreds of channels
- Capture instant off readings for all system channels simultaneously

ACB21 • Isolator

- Mass: 92g
- Dimensions: 100mm X 75mm X 23mm
- >50Vdc isolation
- ± 12 V or +5V operation
- Isolates individual or groups of ACB2's or DAB2's to compensate for voltage drop errors

DAB2 • Digital to Analog Board

- Mass: 92g
- Dimensions: 100mm X 75mm X 23mm
- One ± 2 V analog output:
 - Configurable as a source or a sink differential output
 - Used to control rectifier output
- Two ± 2.4 V analog inputs:
 - 183mV resolution (± 1 mV accuracy full scale)
 - 50 & 60 Hz Rejection
 - Capture instant off readings for all system channels simultaneously
 - Expandable in 2 channel increments
 - Transient Suppression

RB3 • Relay Board

- Mass: 355g
- Dimensions: 130mm X 105mm X 62mm
- 8 DPST relays
- 1A 50Vdc per contact board rating

To the best of our knowledge the data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact supplier to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.