



# ALLEGRO FIELD COMPUTER



REVISION 1

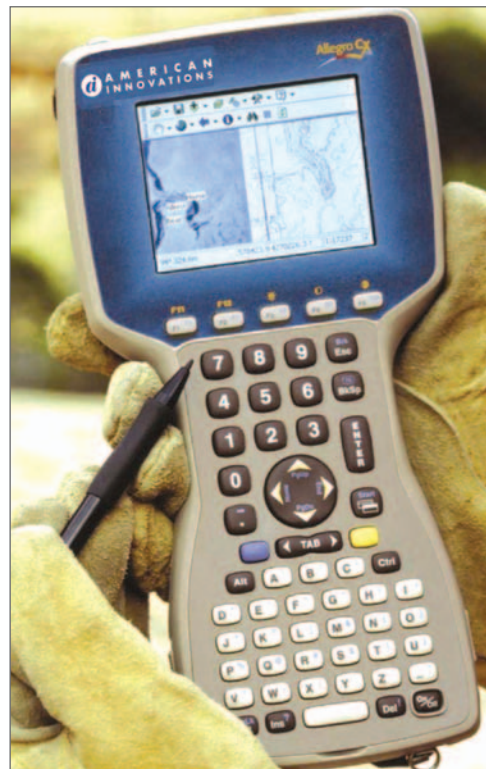
The **Allegro CX Field Computer** is a versatile field computer for capturing pipeline and facility cathodic protection data. It will typically pay for itself in less than a year by saving data collection time, saving data transcription time and eliminating data entry and transcription errors associated with manual data entry. Allegro CX is the most advanced, durable, and powerful handheld computer available. It is Windows CE pen-based with integral Digital Voltage Meter, Periodic and Close Interval Survey Software, optional GPS receiver, and remote trigger port compatible with wire chainers and push button probes. Allegro is compatible with both standard and GPS synchronized current interrupters. It is available in a color or monochrome display version. Both use transreflective technology for brilliant contrast in direct sunlight. Color display versions are Bluetooth compatible.

**Allegro CX** is a must for companies seeking accurate field data acquisition.

Ideal For All Field Computing Needs:

- Periodic & Bi-monthly surveys
- Close Interval Surveys
- GPS Data Collection
- GIS Data Verification

**Allegro Applications** described below are 100% compatible with AI's Pipeline Compliance System Software.



## Periodic Survey Software:

- Collect test point, rectifier, bond, anode, tank CP and other related facility data
- Display previously collected data
- Display site list of inspection points
- Upload and download custom and standard routes from Bass-Trigon Software's PCS Software (CPDM Module)

## Sub Meter and WAAS GPS Compatible

- Compatible with any external GPS, standard WAAS or sub-meter, that outputs a NEMA format
- Point, line, and area mapping with a graphical display of mapped positions
- Distance and area determination
- Waypoint creation, definition, and navigation

## Close Interval Survey

- Ability to read fast cycle surveys (800ms On & 200 ms Off)
- Cycle time specified by user
- Provide graphical display of collected data: on, on/off, native survey
- Instant off delay eliminates read capture during anodic spike
- Display DC waveform
- Standard export to database
- GPS Time Synchronization Software for precise time-controlled signal synchronization between the Allegro and interrupters. Helps ensure accurate acquisition of On/Off data.



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## Allegro CX PRODUCT SPECIFICATIONS

**Processor:**

Intel XScale® Processor – 400 MHz

**Operating System:**

Windows® CE NET V4.2

**Programs Included on Allegro:**

PTab® Spreadsheet, Calculator and Microsoft Programs including Windows Explorer®, Inbox® Email, Pocket Internet Explorer® and WordPad®

**Disk Storage/Internal Memory:**

- NVM Disc  
128, 512: Available on Monochrome version  
128, 512, 1G: Available on Color version
- RAM  
64MB: Available on Monochrome version 64,  
128MB: Available on Color version
- 16-bit PC Card, user-removable
- Accepts Type I or II 3V/5V PC Cards
- Can use ATA, compact Flash, micro hard disk, SRAM, Bluetooth Communications cards, modems, wireless networking cards and other I/O cards

**Physical Specifications:**

- Size: 10" high x 5.25 wide at display x 3.1" at narrowest point x 1.5" deep  
(256 mm x 133 mm x 79 mm x 38 mm)
- Weight: 1.84 lbs. or 29.5 oz. (836 grams)
- Operating temperature: -22° to + 130°F (-30° to + 54°C)
- Storage temperature: -22° to + 140°F (-30° to + 60°C)
- Waterproof design: Passes MIL-810E-512.3 and IP67 leak (immersion) tests
- Shockproof: Passes MIL-810E-5112.4 shock (drop) test

**Serial Ports:**

- USB Port on connection base for use with docking module
- COM1: Sealed 9-pin D, filtered for EMI, full modem control, 5V @ 200 mA available on DTR pin, controlled by DTR

**Serial Ports Cont :**

- COM2: Sealed 9-pin D, filtered for EMI, full modem control
- Infrared Port: Operates in both fast IrDA mode (4 M bits/sec) and slow IrDA mode (115K bits/sec)
- Bluetooth card (optional): integrated with color display

**Display:**

- High visibility color TFT active matrix transreflective LCD
- VGA, 320 X 240 pixels, landscape view
- Transreflective technology for brilliant contrast in direct sunlight
- MX1178 Graphic accelerator for high speed graphics
- Color - Operation in cold temperatures without a heater
- Monochrome - Backlight and heater are standard

**Integrated Bluetooth Transceiver (Color display only)**

- Profiles: serial, printer, telephone, LAN
- Transceiver: Class 2 Bluetooth
- Range: 30 ft radius (10 meters)

**Power:**

Rechargeable 3.6 V 3800 mA AH NiMH quick change battery pack

**Clock:**

Real time clock backed by Lithium battery; +/- 3 minutes/month accuracy

**Certifications:**

FCC Class A, CE Mark approved, Bluetooth

**Digital Voltmeter Specifications:**

- Single channel software selectable over these ranges  
Autoranging: 20mV to 250 VDC; 20mVrms to 25mVrmsAC
- Input impedance: All voltage ranges = 100 Mohm
- 250V maximum between any input and ground

**Expandability:**

- Expansion Pods: Allow you to integrate additional components
- Integrated GPS receiver, 802.11b, bar code scanner, RF ID and other custom pods