

Radio Frequency ID (RFID) is a wireless technology used to read and transmit information from tags attached to equipment for fast, 100% accurate identification. RFID tags are ideal for the identification of oil & gas CP assets because they are inexpensive, weatherproof, environmentally-stable and can be applied below non-metallic coatings.

Using **IDBLUE®** RFID readers with the **Allegro™ Field Data PC** during surveys ensures compliance and accuracy:

- **Simplifies routing and verifies test locations**
- **Automatically displays the correct record for the technician**
- **Eliminates guess work or the need to carry alignment sheet data**
- **100% verification that inspections were performed**
- **Generates an automatic inspection history log at a test location**

Users simply scan an RFID tag on a test point, rectifier, bond or other equipment, and the location is verified and automatically included with the related inspection survey data on Allegro. In addition, Allegro appends the serial number, data and time to the tag, providing a foolproof way to verify the inspection occurred. If no tag is present onsite or is incorrect, users can generate and confirm a new tag, or alter the pre-existing tag, depending on their permissions.

How it Works: RFID and Allegro™ Field Data PC



Features	Benefits
Identifies & verifies test locations of oil & gas CP assets	Reads tags on rectifiers, test points, bonds, compressors, regulators, internal corrosion equipment (coupons, probes, injectors etc...) and more, and confirms test location
100% verification of inspections	Allegro serial number, date and time appended to RFID tag
Automatic inspection history log at test location	Immediate, historical data on-site
RFID tags can be added by user	Correct information established and/or maintained at time of inspection
Simplifies route organization	Eliminates need to map test locations geographically
Supervisory and technician modes available	Managers can control capabilities to install, read and correct tags by role

Allegro MX Field Data PC	Product Specifications
Processor	624 MHz PXA270 processor
Operating System and Software	Windows Mobile 6 Classic, Microsoft Office Mobile, Multiple Languages
Display Options	<ul style="list-style-type: none"> • Color Display: 3.8" (96mm) QVGA (320 X 240) daylight readable transreflective color LCD • Monochrome Display: 4.1" (104mm) QVGA (320 X 240) high visibility monochrome LCD Display heater for cold extremes
Keyboard	62-key full alpha & numeric keyboard, large keys color coordinated by function, dual purpose Windows Mobile or application function keys, removable keyboard bezel for easy cleaning
Ports	Full size USB host - A , Mini USB client – B, Com I, RS-232C 9-pin subD with 5VDC on DTR pin, 12VDC power in, 10-18V unregulated
Physical	Size 10" high X 5.25" wide at display X 1.5" deep 3.1" wide at narrowest point (256mm X 133mm X 79mm), Wt. 1.8 lbs (840g)
Environmental	IP 67 waterproof and dustproof, Operating temp: -22F to 130F (-30 to 54C), Storage temp: – 30F to 140F (-35 to 60C), tested to MIL-STD 810F for water, humidity, sand and dust, vibration, attitude, shock and temperature
Power	<ul style="list-style-type: none"> • Rechargeable 4000mAh NiMH battery • Run time is approx. 8 hours (depending on use) • Fully charged in four hours • Real Time Clock keeps correct date and time, even during long term battery removal
Wireless Connectivity Options	Bluetooth wireless technology 2.0+EDR, Class I, range 30 feet (10 meters), 802.11 b/g US and International Wi-Fi options
Standard Accessories	4000 mAh NiMH battery, Styli-pen and mini, 100-240 V AC power supply US plug, documentation CDs, USB synch cable, hand strap and shoulder strap
Optional Accessories	USB/Power Dock, 12 VDC vehicle charger, International charger kit includes US, EU, Australia, & UK plugs, Expansion pods for GPS, bar code scanner, National Instruments DAQ, radio modem and OEM development.

Services. American Innovations Allegro Technical Service Engineers provide:

- Technical support via phone and email
- Customer training (on-site and in the AI Austin, TX facility)
- Survey file transfer to Pipeline Compliance System (PCS™) software

About American Innovations. American Innovations (AI) provides oil and gas companies with critical knowledge and decision support for assets and infrastructure via corrosion protection and integrity management services. The company supplies products and services to automate the collection, storage, and reporting of equipment and pipeline compliance data. Bass Engineering, a subsidiary of American Innovations, offers Cathodic Protection engineering services. American Innovations product lines include: Pipeline Compliance System (PCS™), Allegro Field Data PC™, Bullhorn® Remote Monitoring, MicroMax® Current Interrupters, and Integrity Management via Risk Intelligence™ Software and Compliance & Engineering Services.

For more information:

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