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AcraDyne®
A Division of AIMCO

Gen IV Controller

POWERFUL-ACCURATE-INNOVATIVE

Celebrating 15 Years

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For over 40 years AIMCO has been working with manufacturers around the world, we are the complete global source for all assembly, fastening, and critical bolting needs. AIMCO can effectively and swiftly meet your needs whether you're in Thailand fastening a 3 mm nut at 3 Nm, or in Tennessee, USA torquing the last lug nut. AIMCO provides the tools and solutions, on a global scale, that guarantee the success of your project. It is with great pride that AIMCO can say the products that we manufacture are **MADE IN THE USA.**

THE CONTROL IS NOW YOURS!

AcraDyne's new GEN IV controller provides increased PRODUCTIVITY, ACCURACY, and more ENHANCEMENTS than ever before. The GEN IV controller has all the functionality you will need and comes with our software with a built-in logic configurator and PLC functions.

NOW ONE CONTROLLER IS ALL YOU NEED! The GEN IV is not only intuitive and user friendly, it is also compatible with over 300 models of tools. Its compact design allows the controller to easily be moved from one work station to another with convenient mounting brackets and channels for wire and cable routing.

TOTAL SOLUTION PROVIDER. Easy to read, color graphic display with on-board software — all you need is your web browser. The software has been redesigned from the ground up. No more installing special software applications — access it all through your web browser. This innovative feature allows you to receive data on your PC, Tablet, SmartPhone, or any other web-capable device.

THE CONTROL IS NOW YOURS! You can now use more than one device at a time. You can be in program mode on one device while reviewing real-time curves on another, and still be able to review any of the stored 10,000 curves on a third device.

NEW SERVO!

- High power servo drive.
- Enhanced tool control and downshift.
- Improved ergonomics with Soft-Stop.

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GEN IV CONTROLLER

The AcraDyne Gen IV controller is the culmination of more than 40 years of serving our industrial fastening customers with 15 years of designing and manufacturing DC tools that are Made in the USA. It is filled with countless advanced capabilities and features. The Gen IV Controller is the core of the modular AcraDyne DC system. One controller will command any tool in the AcraDyne line from 0.5 Nm to 8100 Nm, all with one cable.

FEATURES AND BENEFITS

- Backward compatible – Works with any Gen III or Gen IV tool from 0.5 Nm – 8100 Nm.
- Bright LED screen – View Torque, Angle, Bolt Count, Parameter Set, Job/Sequence easily from a distance.
- Graphical Screen with on-board software that is the same on all devices.
- Web browser based programing – Receive data on your PC, Tablet, SmartPhone, or any other web-capable device. You can use more than one device at a time: Be in program mode on one device while reviewing real-time curves on another while watching tool diagnostics on a third.
- Multiple Fastening Strategies – Program up to 256 Parameters with as many as 20 Stages.
- Jobs Capability – 99.
- Backup & Restore through USB or Ethernet.
- Removable Flash Memory.
- Assignable I/O (8 X 8).
- Rundown storage – 10,000 including curves.
- Event log – 5000.
- Real-time curve viewing.
- Programmable Calibration and Service alerts.
- Top exit tool cable option available.

NETWORKING CAPABILITIES

- Ethernet Protocols including Open Protocol, Ethernet/IP & PFCS.
- Modular field bus connectivity: PROFIBUS, DeviceNET, Modbus TCP, or any Fieldbus offered by Anybus®
- Data collection.
- Serial protocols and string output.
- Bar Code Scanning & printing.
- Multi-spindle synchronization.

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Four Digit Torque Display

Secondary display allows user to easily set and toggle through information:
- Angle
- Engineering Units
- Bolt Count
- Job/Job Sequence

Optional 7" Graphical Display:
- Runs the same software on PC for ease of use.
- Real Time Graphing for Application Review.
- Selectable Run Screens
- Touch-screen.

LED Display: Large numbers can be seen from a distance.

Parameter Set Display: Displays current parameter set and enables user to quickly change by scrolling up or down.

Model	System Port & Removable Memory	Lights (L) LED Display (D) Graph (G)	24V I/O Assignable 8 X 8"	Serial Port with Protocols	Backup & Restore (USB)	Ethernet*	DeviceNET	PROFIBUS
iEC4E	X	L/D		X	X	X		
iEC4EV	X	L/D	X	X	X	X		
iEC4EG	X	L/D/G		X	X	X		
iEC4EGV	X	L/D/G	X	X	X	X		
iEC4ED	X	L/D		X	X	X	X	
iEC4EP	X	L/D		X	X	X		X
iEC4EVD	X	L/D	X	X	X	X	X	
iEC4EVP	X	L/D	X	X	X	X		X
iEC4EGD	X	L/D/G		X	X	X	X	
iEC4EGP	X	L/D/G		X	X	X		X
iEC4EGVD	X	L/D/G	X	X	X	X	X	
iEC4EGVP	X	L/D/G	X	X	X	X		X

* Ethernet channel supports The Open Protocol, Toolsnet, EtherNet/IP, Modbus/TCP, and other protocols.
Add (-T) to model number for top exit tool cable option

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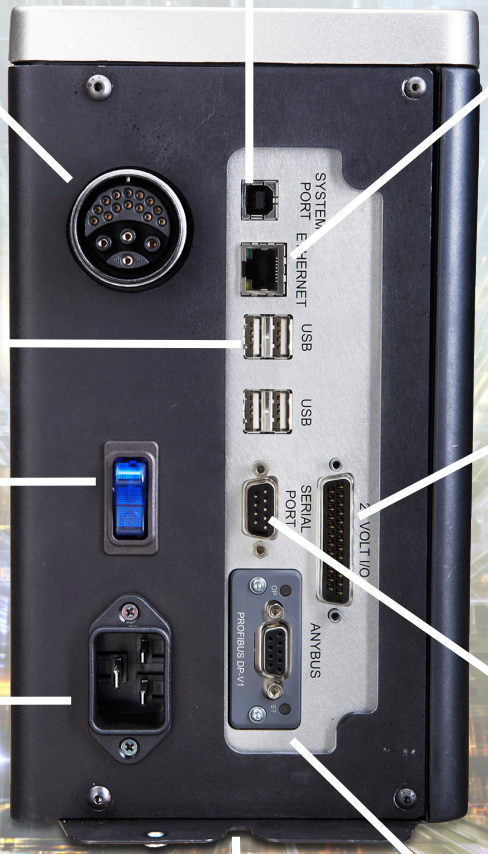
System Port
- Uses standard USB cable.
- Easily connect to any computer to run software, program your controller, and download data and curves.

Tool Connector
- Top exit tool cable option available.

Ethernet
- All Industry Standard Networking Protocols Available.
- Remote System Monitoring, Programming, and Download of Data.

USB Ports (4)
- Backup and Restore
- Update Software
- Download Data and Curves
- Expandable USB Peripherals



24V I/O (Assignable)
- 8 In/8 Out

Illuminated On/Off Switch

Serial Port
- Data String Output
- Serial Protocols
- Bar Code Scanners
- Printers

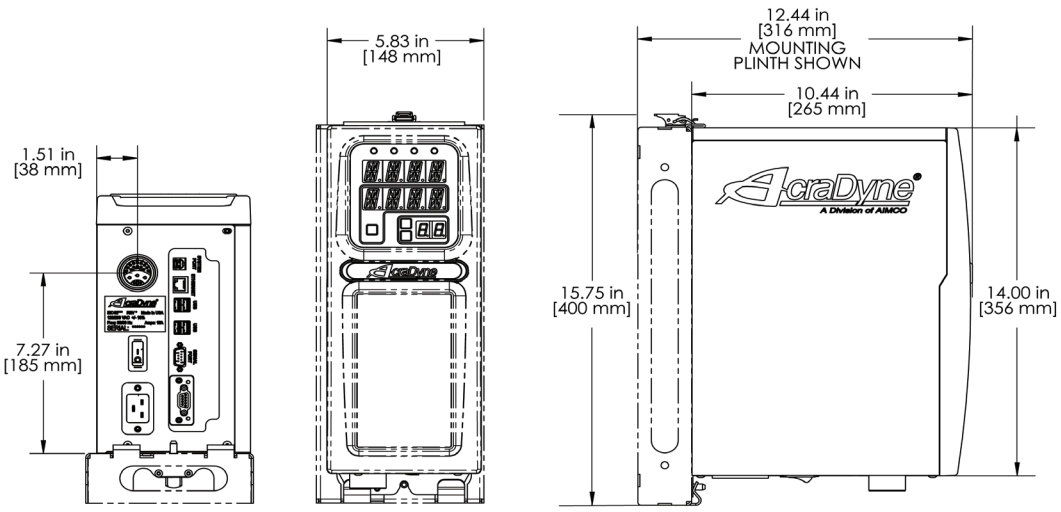
Power Connector (110V / 220V)

Mounting Bracket with Wire and Cable Routing Channels.

Fieldbus Platform
- Supports DeviceNET, PROFIBUS and all platforms offered by
- Separate Ethernet Channel for Dual Network Requirements.

NETWORKING CONNECTIVITY

DIMENSIONS



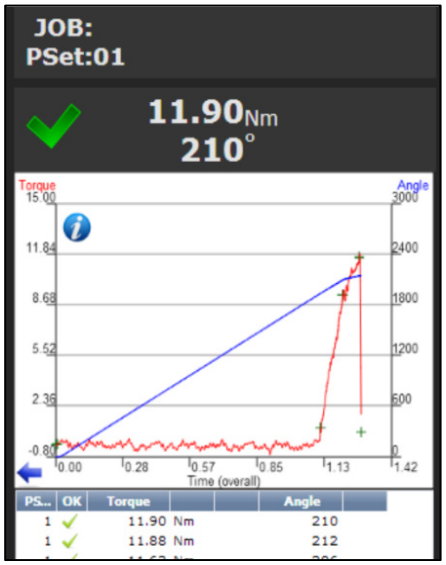
WIDTH	HEIGHT	DEPTH	WEIGHT
5.83 in / 148 mm	15.75 in / 400 mm	12.44 in / 316 mm	15.65 lbs / 7.1 kg

SOFTWARE

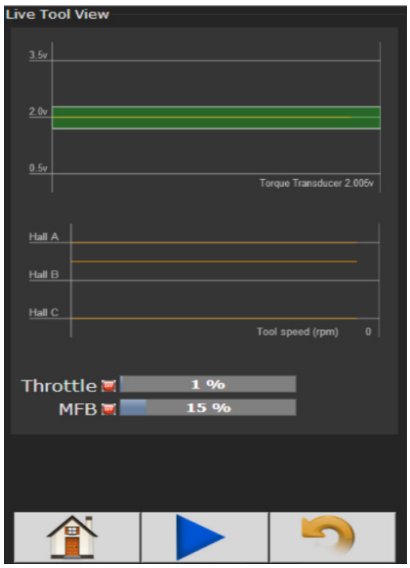
AcraDyne's software package is on-board every AcraDyne controller and is provided FREE of charge. This comprehensive, user-friendly program allows programming, analysis, and diagnostics.

The software is based on a standard web browser. This allows you to connect the AcraDyne controller with any computer, tablet, or smart device. Connect through Ethernet, USB, or wirelessly via a network to which both devices are connected.

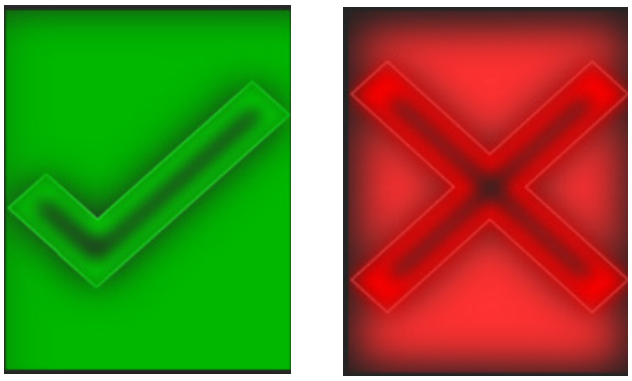
Adding and editing Parameter Sets (256) and Jobs (99) Is easy and intuitive in the parameter set up function.



View curve results in real time or one of the up to 10000 stored in memory to program the application for optimal performance.



Tool programming and diagnostics for repair, calibration and advanced troubleshooting.



Several run screens to choose from. The large screen indicators are helpful in viewing real time results of the rundown from a distance.

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VERSATILITY MEETS INNOVATION
From 0.5 Nm to 8,100 Nm

NOTES

NOTES

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