Gen IV ACE Controller

ULTIMATE FLEXIBILITY FOR TOTAL CONTROL

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.

In 1999, AIMCO began manufacturing its AcraDyne line of state-of-the-art D/C Controlled Tools ranging from 1 – 12,000 Nm, custom built multiple spindle systems as well as cutting edge tool controllers.

It is with great pride that AIMCO can say the products that we manufacture are **MADE IN THE USA.**

ISO 9001: 2015 Certified

AcraDyne GEN IV ACE Controller Platform
AIR · CORDLESS · ELECTRIC

CONTROL · MONITOR · REPORT

AcraDyne's new GEN IV ACE controller platform is a single controller platform that commands all transducerized tools in the AIMCO portfolio. You now have the flexibility and freedom to control AcraDyne's DC and Battery powered tools, Uryu's DC and Air powered tools.

FOUR DIGIT TORQUE DISPLAY

LED DISPLAY: LARGE NUMBERS CAN BE SEEN FROM A DISTANCE

SECONDARY DISPLAY ALLOWS USER TO EASILY SET AND TOGGLE THROUGH INFORMATION:
- ANGLE
- ENGINEERING UNITS
- BOLT COUNT
- JOB/JOB SEQUENCE

PARAMETER SET DISPLAY: DISPLAYS CURRENT PARAMETER SET AND ENABLES USER TO QUICKLY CHANGE BY SCROLLING UP OR DOWN

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

- ## The same, simple programming for all tool types
- ## No additional controller training needed for different platforms (tool type specific knowledge is required)
- ## One common communication for your global data collection, line controls, and fieldbus platforms

SYSTEM PORT
- **USES STANDARD USB TYPE-B CABLE**
- **EASILY CONNECT TO ANY COMPUTER TO RUN SOFTWARE, PROGRAM YOUR CONTROLLER, AND DOWNLOAD DATA AND CURVES**

DUAL ETHERNET PORTS
- **ENABLES TWO NETWORKS SIMULTANEOUSLY FOR SEPARATE LINE CONTROL AND DATA COLLECTION**
- **SUPPORTS ANY INDUSTRY STANDARD PROTOCOL**
- **REMOTE SYSTEM MONITORING, PROGRAMMING, AND DATA DOWNLOAD**

TOOL CONNECTOR
- **TOOL CONNECTOR VARIES BY TOOL TYPE**

USB PORTS (4)
- **BACKUP AND RESTORE**
- **UPDATE SOFTWARE**
- **DOWNLOAD DATA AND CURVES**
- **EXPANDABLE USB PERIPHERALS**

SERIAL PORT
- **DATA STRING OUTPUT**
- **SERIAL PROTOCOLS**
- **BAR CODE SCANNERS**
- **PRINTERS**

ILLUMINATED ON/OFF SWITCH

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

POWER CONNECTOR (110V / 220V)

MOUNTING BRACKET WITH WIRE AND CABLE ROUTING CHANNELS.

FIELDBUS PLATFORM
- **SUPPORTS CC-LINK, DEVICENET, PROFINET, PROFIBUS, AND ALL PLATFORMS OFFERED BY Anybus**

Your ACE in the hole for total CONTROL

AcraDyne's ACE controller provides a single platform that commands all tools in the AIMCO portfolio:

- AcraDyne
    - DC Tools
    - Cordless Battery Tools

- Uryu
    - Air Powered Tools
    - Electric Tools

GEN IV ACE iEC Controller for all AcraDyne DC Tools

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* TWO PORTS
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

 * 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. For fieldbus options add: P = Profibus, C = CC Link, D = DeviceNet, N = ProfiNet. Other fieldbus options available upon request.

GEN IV ACE iAC Controller for Transducerized Uryu Air Tools

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)	SOLENOID SHUT OFF ON BOARD	PROGRAMMABLE REGULATOR ON BOARD	ETHERNET* TWO PORTS
iAC4E	X	L / D		X	X			X
iAC4EV	X	L / D	X	X	X			X
iAC4EG	X	L / D / G		X	X			X
iAC4EGV	X	L / D / G	X	X	X			X
iAC4ES	X	L / D		X	X	X		X
iAC4ESV	X	L / D	X	X	X	X		X
iAC4ESG	X	L / D / G		X	X	X		X
iAC4ESGV	X	L / D / G	X	X	X	X		X
iAC4ESR	X	L / D		X	X	X	X	X
iAC4ESRV	X	L / D	X	X	X	X	X	X
iAC4ESRG	X	L / D / G		X	X	X	X	X
iAC4ESRGV	X	L / D / G	X	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. For fieldbus options add: P = Profibus, C = CC Link, D = DeviceNet, N = ProfiNet. Other fieldbus options available upon request.
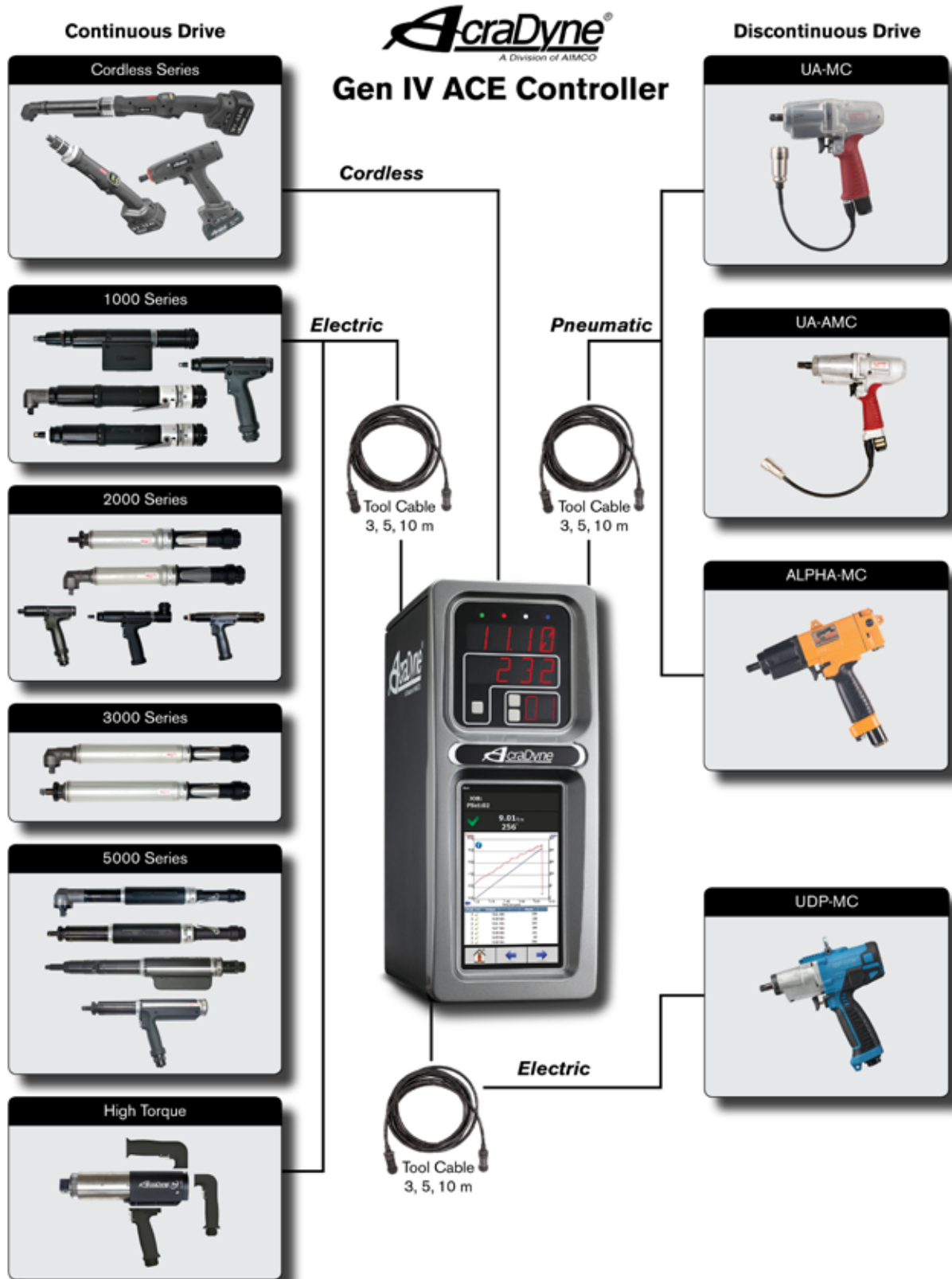
Visit our NEW website **www.aimco-global.com**

GEN IV ACE iBC Controller for all AcraDyne Transducerized Battery Tools

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* TWO PORTS
iBC4E	X	L/D		X	X	X
iBC4EV	X	L/D	X	X	X	X
iBC4EG	X	L/D/G		X	X	X
iBC4EGV	X	L/D/G	X	X	X	X

* Ethernet channel supports The Open Protocol, Toolsnet, EtherNet/IP, Modbus/TCP, and other protocols.

For fieldbus options, add: P = Profibus, C = CC Link, D = DeviceNet, N = ProfiNet. Other - options available upon request.

The AcraDyne Gen IV ACE controller platform is the culmination of more than 40 years of serving our industrial fastening customers with 17 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 ACE Controller is a controller platform that will command every transducerized tool in the AIMCO arsenal.
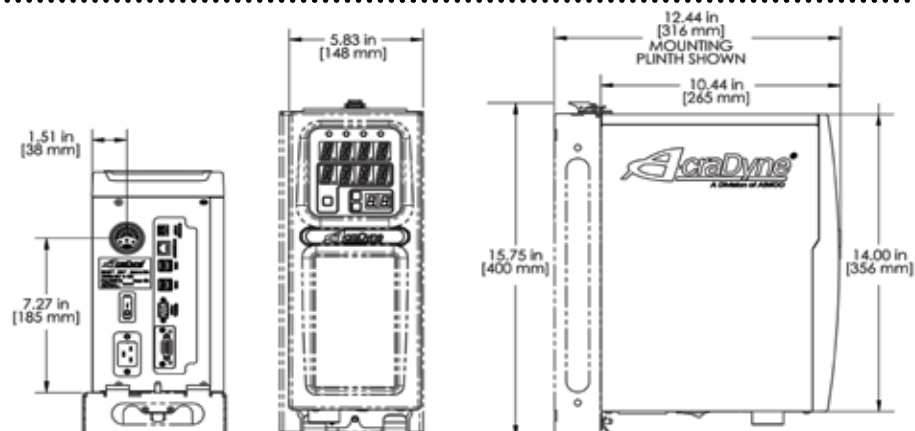
Continuous Drive

Cordless Series

1000 Series

2000 Series

3000 Series

5000 Series

High Torque

Cordless

Electric

Tool Cable
3, 5, 10 m

Gen IV ACE Controller

Pneumatic

Tool Cable
3, 5, 10 m

Electric

Tool Cable
3, 5, 10 m

Discontinuous Drive

UA-MC

UA-AMC

ALPHA-MC

UDP-MC

NETWORK CONNECTIVITY

CONNECTIVITY
- ■ USB
- ■ Ethernet

To Plant Network

PROTOCOLS
- ■ Open Protocol
- ■ Ethernet/IP
- ■ Modbus TCP
- ■ Toolsnet

Bar Code Scanner

Socket Tray

Logic I/O

LINE CONTROL PLC
- ■ 24V I/O
- ■ PROFIBUS
- ■ DeviceNET
- ■ Profinet

DIMENSIONS

5.83 in [148 mm]

1.51 in [38 mm]

7.27 in [185 mm]

12.44 in [316 mm] MOUNTING PLINTH SHOWN

10.44 in [265 mm]

15.75 in [400 mm]

14.00 in [356 mm]

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

Visit our NEW website **www.aimco-global.com**

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, allowing you to connect the AcraDyne controller with any computer, tablet, or smart device. Connect through Ethernet, USB, or wirelessly via a network connected to both devices.
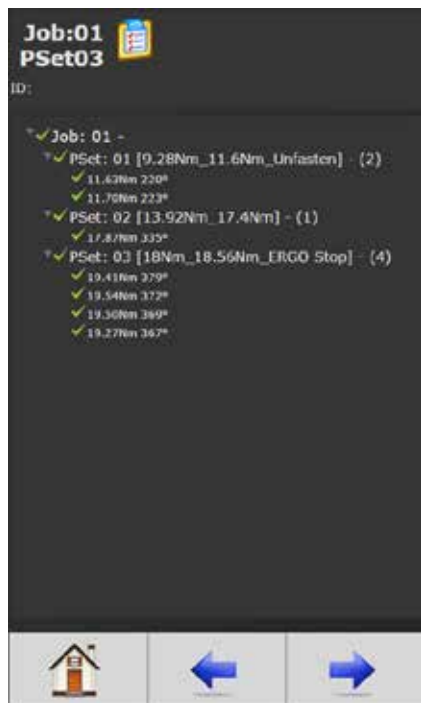
Adding and editing Parameter Sets (256) and Jobs (99) is easy and intuitive in the parameter set up function.

View curve results in real time or view stored results. As many as 10,000 curve results can be stored in memory.
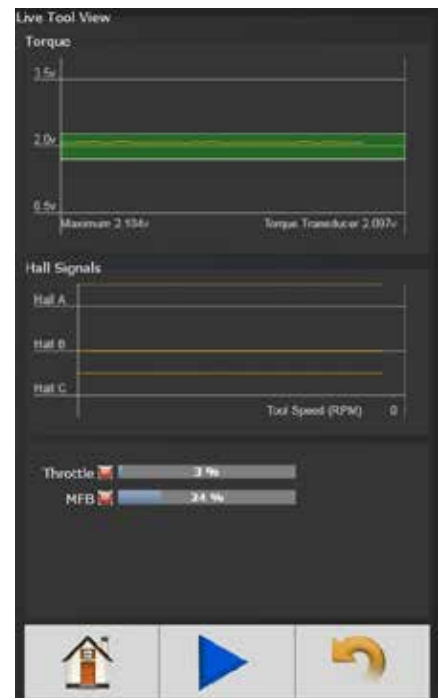
Tool programming and diagnostics for repair, calibration and advanced troubleshooting.

Choose from several run screens that display easy to view, large screen indicators.

NOTES

AIMCO