

**Cleco**

- Flexibility
- Connectivity
- Serviceability



# Powerful Tightening Control On A Single Platform

The mPro400GC. Innovation For Safety Critical Applications.

**COOPER** Tools

# The Most Flexible, Cost-Effective

Introducing the Cleco **mPro400GC** Global Controller, the first controller for safety-critical applications that offers unsurpassed levels of flexibility, connectivity, and serviceability while providing superb torque accuracy and process control. This new controller incorporates the advanced technical features of the proven DGD mPro system with the user-friendly software of the trusted Cleco TME controller, resulting in a powerful control solution that offers impressive cost savings through unequalled flexibility.

## Corded, Cordless, Or Fixtured ... All From One Controller

The Cleco **mPro400GC** Global Controller is compatible with all Cleco 18-48 Series DC electric corded tools, LiveWire cordless tools, and all DGD and EMT fixtured spindles. That means fewer controllers and cables are needed for your line. And that means savings...up to 50% over traditional systems.

## Reduce System Costs Up To 50%

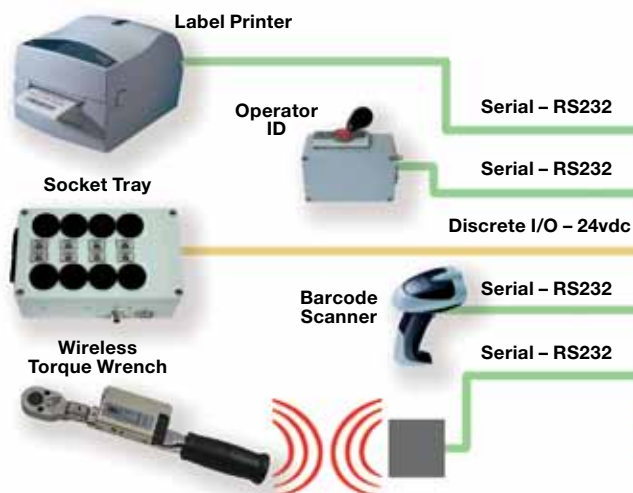
- Configure up to 16 hand held corded and cordless LiveWire, plus fixtured spindles, from one controller.

### ■ Acquisition Cost Savings

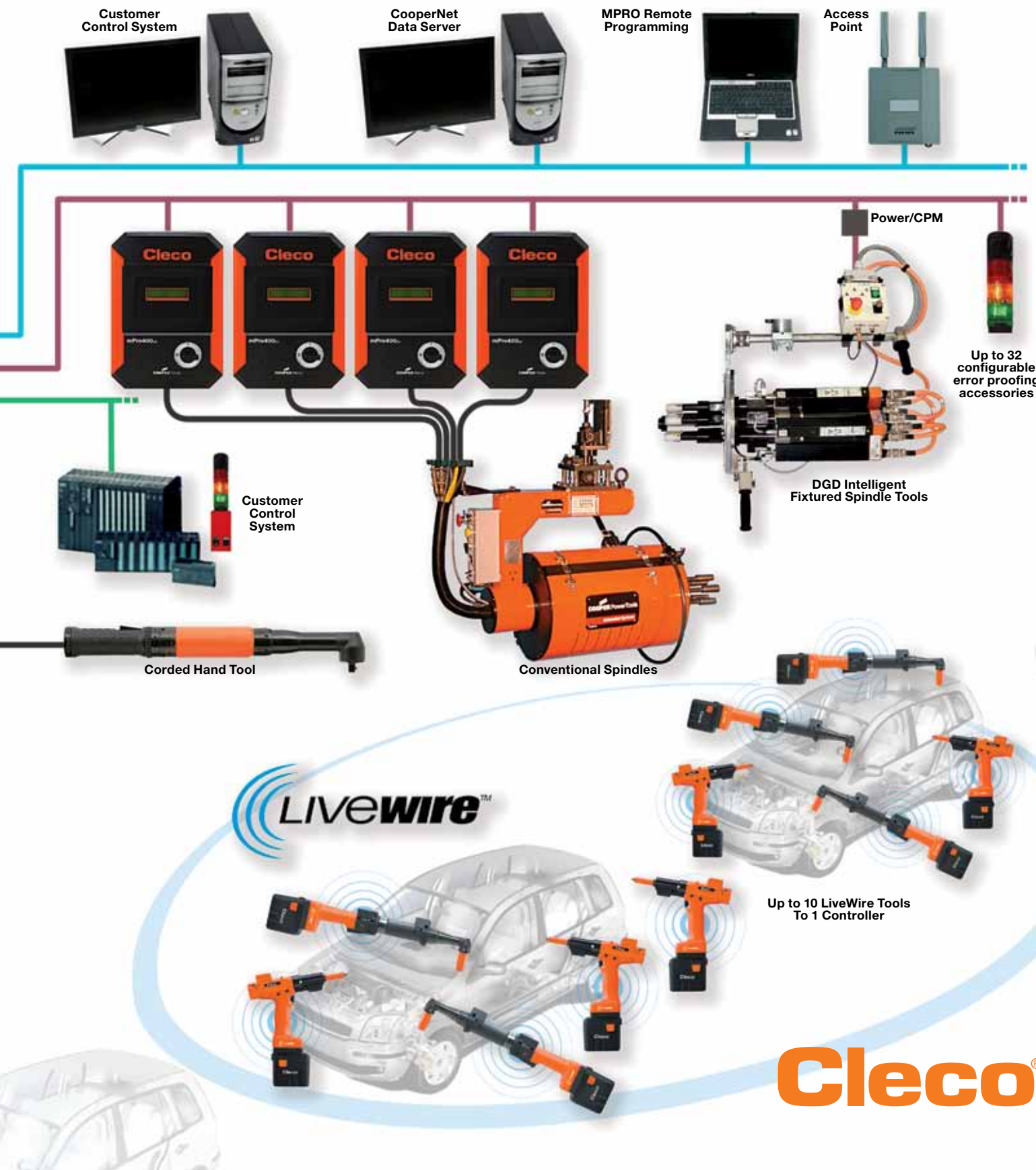
- Example: 10 LiveWire cordless tools, 5 Intelligent Spindles, 1 corded tool from one controller
- Save the expense of 15 controllers and 14 field cables

### ■ Facility Cost Savings

- Installation Expenses: Save on Ethernet and power drops, controller stands, cable management, labor to install and support
- Production Expenses: One controller means fewer backups, fewer repairs, fewer headaches and one-time training



# Intuitive Systems Controller... Ever



**Cleco**®

# Universal Connectivity

Universal connectivity begins with global auto-sensing input voltage, 16 configurable inputs and outputs, plus DeviceNet, Ethernet-IP, and Profibus fieldbus standards. User-friendly software mapping of discrete and fieldbus selections provides ultimate error-proofing control. Dual fieldbus ports allow redundant I/O mapping or expansion. Utilize two different fieldbus standards simultaneously for maximum flexibility.

The Cleco **mPro400GC** Global Controller comes standard with a system bus to manage internal data flow and avoid burdening outside networks. It can be utilized for rapid “grab and go” connectivity to accessories, such as adding error-proofing from socket trays,

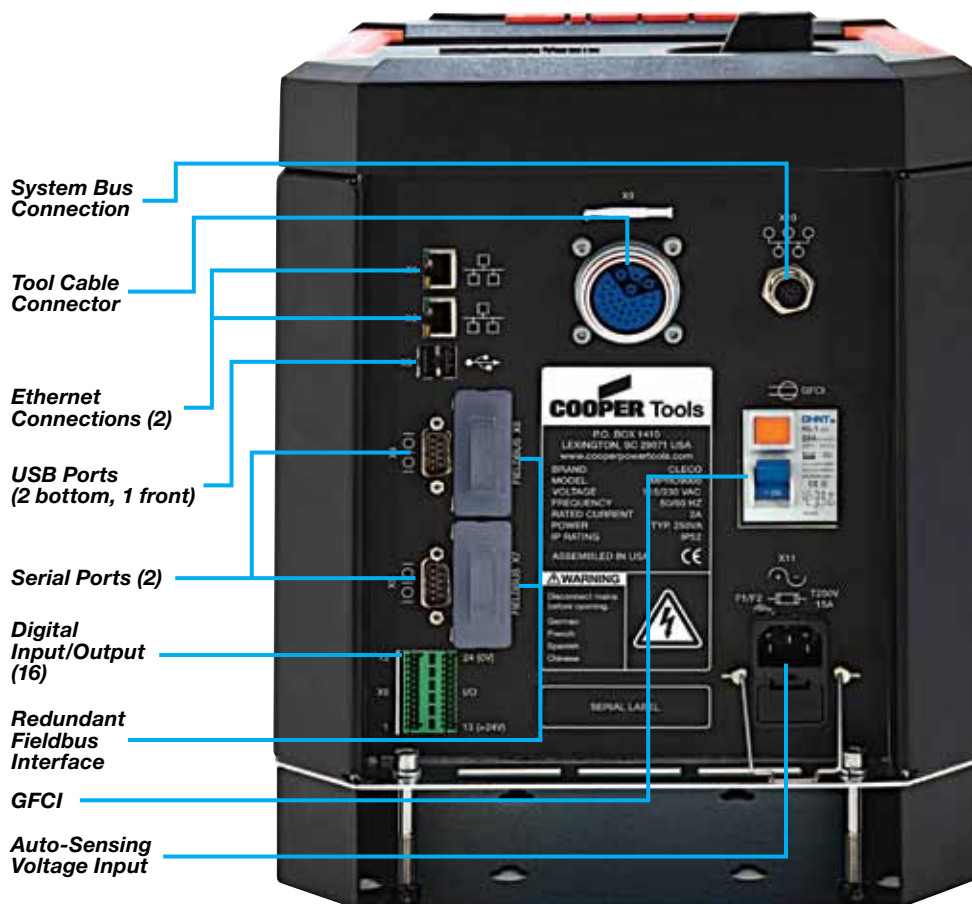
stack lights, or operator boxes. Configurable software menus allow quick integration into any process. With up to 32 configurable nodes on the system bus, endless error-proofing combinations are possible.

The system bus can manage up to 15 secondary controllers in combination with single and multi-spindle stations. Spindle sequencing, data management, and diagnostics are just a few of the many functions performed. In addition, new DGD® Fixtured Intelligent Spindles can utilize

the system bus to drive up to 30% of cost out of a traditional system through cable reduction, maximizing acquisition and facility cost savings.

## Universal Connectivity

- Auto-Sensing Voltage
- 16 Configurable I/O's
- Redundant Fieldbus
- Redundant Serial and Ethernet Ports
- Isolated System Bus



Y20 Fork 3D: 3D Visualization

0425

417

3476598

| UNIT | MM   | IN |
|------|------|----|
| 426  | 10.0 | 4T |
| 417  |      |    |
| 417  |      |    |
| 417  |      |    |

3D View

# Superior Serviceability For



## Installation Flexibility

At only 10" w X 15" h X 15" d (254mm X 381mm X 381mm) and weighing just 30 lbs. (13.6 kg.), the Cleco **mPro400GC** is substantially smaller and lighter than most traditional controllers. It can be lifted easily by a single person and will mount just about anywhere.



# Exceptional Ease-Of-Use

## Quick Mount Bracket

No more templates and measuring mounting hole patterns...installation of the **mPro400GC** is simple with a separate receiver bracket that makes locating mounting holes easy. The unit then attaches directly to the bracket so the installation is fast and foolproof.



## Integrated Cable Management

The **mPro400GC** mounting bracket incorporates an integral cable management channel, so installations stay orderly and easily accessible. Clearly labeled connectors and top-down cable routing means a clean installation with no guesswork. Mounting was designed to be simple and effective to get you up and running fast.

## CompactFlash® Memory For Production Uptime

A standard CompactFlash card reliably stores:

- Operating system
- Drivers
- Network settings
- Application parameters
- Torque data

**50  
Second  
Boot!**



Positioned on the back of the unit for added security and tamper resistance, the card is still easily accessible.

- Rapid controller swap with 50-second boot
- No licensing or proprietary hardware
- Card stores up to 10,000 rundowns per tool

## Secondary Controller Functionality

A secondary controller is controlled from a master or primary unit. It has I/O for local error proofing and peripherals, plus a LCD for operator feedback and troubleshooting.



# Specifications & Accessories

## Controllers

| Description   | Tool Compatibility                                                   | Model          |
|---------------|----------------------------------------------------------------------|----------------|
| Primary       | Cleco 18-48 Series, LiveWire, Intelligent Spindle*                   | MPRO400GC-P    |
| Primary 1-2   | LiveWire, Intelligent Spindle*, DGD/EMT Fixtured Spindles - Size 1-2 | MPRO400GC-P-12 |
| Secondary     | Cleco 18-48 Series                                                   | MPRO400GC-S    |
| Secondary 1-2 | DGD / EMT Fixtured Spindles - Size 1-2                               | MPRO400GC-S-12 |
| Master        | LiveWire, Intelligent Spindle*                                       | MPRO400GC-M    |

\* Requires quote to accommodate hardware configurations.

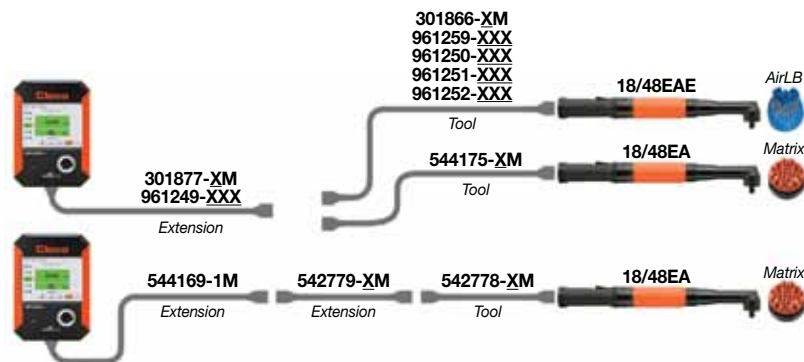


## Cables

| Tool Model | Extension Model | Description                      | Connectors      |
|------------|-----------------|----------------------------------|-----------------|
| 301866-XM  | 301877-XM       | Straight, Std. Durability        | AirLB - AirLB   |
| 961259-XXX | 961249-XXX      | Straight, Std. Durability        | AirLB - AirLB   |
| 961250-XXX |                 | Straight, High Durability        | AirLB - AirLB   |
| 961251-XXX |                 | Straight Swivel, High Durability | AirLB - AirLB   |
| 961252-XXX |                 | Angle Swivel, High Durability    | AirLB - AirLB   |
| 544175-XM  | 544169-XM       | Straight, Std. Durability        | AirLB - Matrix  |
| 542778-XM  | 542779-XM       | Straight, Std. Durability        | Matrix - Matrix |

(X = 1,2,3,6,8,10,15) Meters

(XXX = 010, 020, 030, 040, 050, 060, 080, 100, 120, 130, 140, 150, 180, 220) Decimeters



## Accessory Cables

| Part No.    | Accessory Cable Description   |
|-------------|-------------------------------|
| S133412     | System Bus Terminator         |
| S133408-005 | System Bus Cable - 0.5M Bus   |
| S133408-020 | System Bus Cable - 2M Bus     |
| S133408-050 | System Bus Cable - 5M Bus     |
| S133408-200 | System Bus Cable - 20M Bus    |
| S133408-500 | System Bus Cable - 50M Bus    |
| 543446-7    | Ethernet Cable Crossover - 2M |
| 543445-7    | Ethernet Cable Patch - 2M     |
| 935170      | Serial Cable IrDA - 1M        |
| 543490-10   | Serial Cable Null Modem - 3M  |

## Accessories

| Part No. | Accessory Description                 |
|----------|---------------------------------------|
| 543995   | Access Point 2.4GHz WLAN (US)         |
| 961323   | Access Point 2.4GHz WLAN (EU)         |
| 961830   | System Bus 16 I/O Expander            |
| 960392   | System Bus 32 I/O Expander            |
| S133410  | System Bus 4-Position Socket Tray     |
| S133411  | System Bus 8-Position Socket Tray     |
| S133406  | System Bus Control Box with Buzzer    |
| S133405  | System Bus Stack Light without Buzzer |
| S133420  | System Bus Stack Light with Buzzer    |
| 544171   | Fieldbus Devicenet                    |
| 544172   | Fieldbus Ethernet-IP                  |
| 544173   | Fieldbus Profibus                     |
| 544163PT | CompactFlash Module Programmed        |
| S168620  | mPro Remote Programming Software      |



**Cooper Tools**  
1000 Lufkin Road  
Apex, NC 27539  
www.coopertools.com