# Oil & Gas Distribution

*The Distributors Guide to Control Components for Oil & Gas*

c3controls.com

c3controls®
Everything under control.

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# About c3controls

Since 1976, c3controls (c3controls.com) has partnered with wholesale distributors, OEMs, and electrical equipment builders to deliver a comprehensive portfolio of industrial control products for even the most demanding applications. By maintaining strict control over the development and manufacturing of every product, c3 provides extraordinary value through unmatched quality, competitive pricing, same-day shipping, and a lifetime product warranty. Our vertically integrated approach ensures faster response times, consistent supply, and the flexibility needed to serve customers, fostering a level of innovation that leads the industry.


*We are proud to be ISO 9001:2015 certified for our quality management system.*



# Glossary of Terms

**American Petroleum Institute (API):**
The leading trade association that develops standards and advocates for all aspects of America's oil and gas industry.

**Class 1, Division 2:**
A hazardous area classification for locations where flammable liquids and gases are present. Electrical equipment used in Class 1, Div. 2 locations must be designed and certified to prevent ignition and ensure safety.

**Crude Oil:**
Also known as petroleum, an unrefined liquid fossil fuel consisting of a mixture of hydrocarbons. Extracted from underground reservoirs, it is the primary raw material used in the production of fuels.

**Downstream:**
The final stage of oil and gas production where impurities are removed in order to create final products for consumers.

**Drilling Rig:**
A large, complex mechanical structure that facilitates the drilling process, essential for accessing and extracting oil and gas.

**Exploration:**
Conducting geological research to identify underground reservoirs of crude oil and natural gas for drilling and extraction.

**Extraction:**
Retrieving crude oil and natural gas from underground reservoirs and bringing them to the surface for processing and distribution.

**Fracking:**
Also known as 'hydraulic fracturing', the process of injecting fluid underground at a high pressure to enhance the flow of hydrocarbons.

**Gas Processing Plant:**
An industrial plant designed to treat and purify natural gas. Impurities and natural gas liquids are removed to produce dry natural gas.

**Hydrocarbons:**
Molecules of carbon and hydrogen in different combinations form the basis of fossil fuels like crude oil and natural gas.

**Lockout / Tagout (LOTO):**
Safety practices and procedures that protect workers from unexpected releases of energy during maintenance and repair of equipment.

**Midstream:**
The middle stage of oil & gas production in which raw materials are transported to refineries for storage and processing.

**Natural Gas:**
A naturally occurring gaseous fossil fuel consisting of a mixture of hydrocarbons, primarily methane. It is often found alongside crude oil in underground reservoirs.

**Offshore:**
Any oil and gas operations that take place beneath the seabed, away from the mainland.

**Oil Refinery:**
An industrial plant where crude oil is transformed and refined into useful products such as gasoline, diesel, jet fuel, and petrochemicals.

**Onshore:**
Any oil and gas operations that take place on land, away from bodies of water.

**Petrochemicals:**
Chemical compounds derived from crude oil and/or natural gas through refining. Used as raw materials for producing plastics, textiles, electronics, and more.

**Pipeline:**
An interconnected system of pipes used to transport oil and gas to refineries, distribution centers, and/or end users. Pipelines can be over or underground and on or offshore.

**Production:**
The complete process of finding oil and gas resources and turning them into final consumable products. Stages include upstream, midstream, and downstream.

**Reservoir:**
A subsurface accumulation of hydrocarbons in rock formations acting as natural storage.

**Transmission:**
The transportation of oil and gas over long distances using pipelines and other infrastructure.

**Upstream:**
The initial stage of oil and gas production which includes site exploration, drilling, and extraction.

# Market & Program Overview

Oil and gas distributors across North America are navigating a market defined by rapid technological evolution and shifting energy demands. As the industry strives to remain competitive against expanding renewable sources, producers are prioritizing high-tech solutions that lower costs and optimize production while maintaining strict environmental stewardship. This drive for efficiency is fueling a wave of modernization across mature extraction sites and new exploration projects alike, creating a consistent and robust demand for advanced electrical control components.

Despite these complexities, the demand for ruggedized controls remains multifaceted across the entire energy value chain. Upstream drilling, midstream transportation, and downstream refining all require specialized electrical components that can withstand extreme environmental rigors. This broad spectrum of application ensures a healthy and diverse sales pipeline for distributors who can provide the safety-critical components necessary for complete regulatory compliance.

To stay competitive, many distributors are streamlining operations by focusing on high-turnover, essential items while seeking more agile manufacturing partners for specialized configurations. Rather than tying up capital in massive, slow-moving stockpiles, savvy distributors are prioritizing lean inventory management and relying on partners who can provide rapid fulfillment. In an industry where lead times can make or break a project, this strategic approach to stocking ensures that distributors can meet urgent customer needs without over-investing in rarely used parts.

c3controls can help distributors step ahead. Our combination of 17+ million product configurations, same-day shipping, lifetime warranty, and up to 40% advantage pricing enables you to react faster to changing market needs without overextending your inventory. In an environment full of change, partnering with c3controls means you can focus on being proactive, profitable, and a step ahead of the competition.

## Program Benefits

- **Unmatched Product Range:**
  With 17+ million possible configurations, distributors can source exactly what their customers need from one supplier – covering everything from contactors and circuit breakers to enclosed control solutions and so much more.
- **Same-Day Shipping:**
  We ship orders the same day they are received, helping distributors reduce local inventory requirements and get products into customers' hands quickly.
- **Lifetime Warranty:**
  Every c3controls product comes with a transferable lifetime warranty, reflecting our confidence in quality and giving both distributors and end customers peace of mind about long-term reliability.
- **Advantage Pricing:**
  Our direct-to-market business model yields savings of up to 40% on comparable products – a margin advantage distributors can leverage to win more business or improve profitability.
- **Quality Assurance:**
  All products meet or exceed global standards (UL, IEC, etc.), and our ISO-certified processes ensure consistent performance. Distributors can trust that every item will perform as promised in the field.
- **Marketing Expertise:**
  Distributors can also tap into our sister company, c3digitus, a digital marketing agency specializing in industrial B2B, for added support in driving visibility and leads.



# Meet Our Program Leaders

*At c3controls, we understand that distributors and wholesalers are the lifeblood of the industry.*

Our Oil & Gas Distributor Program is designed to help you compete smarter, operate leaner, and grow faster — with a partner who's fully invested in your success. We believe partnership means listening, adapting, solving, and growing together. That's why at c3controls, **"We Listen. We Adapt. We Solve. We Partner. We Are You."**

### Geoff Taylor

***President & CEO***

Geoff Taylor is an established leader in the industrial control industry. As President & CEO, he has led c3controls through transformative global growth and expansion while improving operational excellence, quality, and ensuring customer satisfaction is second to none. Creating an exceptional culture to deliver extraordinary value while improving the lives and communities c3 serves is the cornerstone of his work and life.

### Ted Wodoslawsky

***Vice President & Chief Operating Officer, c3digitus***

Ted brings a wealth of experience in the wholesale distribution and controls industries, having previously served as the Distribution Programs Manager and Product Manager for Rockwell Automation. He also held leadership roles as the Director of Marketing for ABB Low Voltage Products and the VP of Marketing for ABB Robotics. Ted's deep understanding of the industry makes him a key voice in the field and an advocate for the value of independent distributors.

### Rick O'Neal

***Vice President, Sales***

Rick O'Neal has over 30 years of experience in the electrical industry. His deep expertise was forged through key leadership roles at major industry players. Rick began his career with Westinghouse Electric (now Eaton) and went on to hold Vice President positions at companies like Technology Research Corporation, Coleman Cable and Southwire Company, highlighting his significant background in the wholesale distribution segment of the industry.

### Marc Martin

***Director of Sales - c3energy***

Marc has nearly two decades of experience in engineering, operations, and business development, with a foundational background in the oil and gas sector. During his tenure at Weatherford, a global leader in oilfield services, he gained first-hand experience in the rigorous demands of the industry. Currently, Marc leads the strategic growth of electrical control solutions tailored for energy infrastructure. His deep understanding of the upstream, midstream, and downstream markets allows him to act as a vital resource for distributors.

# Products for Oil & Gas Applications

*c3controls can support all key function areas in your oil and gas operation:*

## 30mm Hazardous Location Pilot Devices

- Push buttons, pilot lights, and selector switches
- All-polyester construction and nickel-plated or stainless steel metal parts for superior corrosion resistance
- Specially engineered for Class 1, Division 2 and Zone 2 with a wide selection of hermetically sealed reed and factory sealed contact blocks
- UL Listed and CE Marked
- Rated for Type 1, 2, 3, 3R, 4/4X, 12 and 13

## Control Stations (+ E-Stops and Alarm Silence Stations)

- Standard pre-configured assemblies of 30mm and 22mm pilot devices (customizable configurations available)
- Enclosure constructions in Polycarbonate, Polyester, and Die Cast Aluminum
- Operator options in both non-illuminated and illuminated
- Each assembly comes with laminated, laser engraved legend plates
- Fully assembled and ready to use out of the box

## Miniature Circuit Breakers

- UL 489 & UL 1077
- 1, 2 and 3 Pole combinations
- 10kA SCCR @ 480Y/277VAC
- Current ratings up to 63 Amps
- B, C and D curve ratings

## Tower Lights

- Stackable design for up to 5 modules in a single assembly
- Mounting options in three styles: 50mm direct mount, 50mm panel-mount short base, and 50mm panel-mount tall base
- Voltage options available in 24V AC/DC, 120V AC, and 240V AC
- Three styles of illumination: continuous, flashing and rotary
- Continuous or intermittent sound modules with 80dB or 100dB sound output

## General Purpose Relays

- Octal Base with pin terminals and Square Base with blade-style terminals
- Various pole combinations and coil voltages
- Color-coded push buttons for distinguishing AC and DC
- Built-in retainer clips in relay sockets
- Marking plates on relays and sockets

## Electronic Timing Relays

- Compact design, sizes in 17.5mm, 22.5mm, and 45mm wide
- Single, dual and multi-functions
- Timing ranges from 0.01 seconds to 9,999 hours
- DIN Rail, Panel, Socket, and enclosure door mountings
- Voltage inputs 20-240 VAC and 12-240 VDC

## Control Power Transformers

- Open-type control transformers ranging from 50 to 5000VA
- Integrated terminal blocks and a finger-safe terminal guard, with IP20 protection on primary and secondary sides
- Each transformer variant features a Class H insulation system
- Capable of handling dynamic loads effectively, suitable for applications with fluctuating power demands
- Ability to provide multiple voltage outputs from a single unit

## Disconnect Switches

- Door mount, panel-base mount, and panel mount with integral operator
- Certified for use in Manual Motor Controller applications suitable as Motor Disconnects
- 16 - 125 Amps in 3, 4, and 5 pole configurations
- Motor loads up to 40HP @ 480V (55kW @ 400V)
- Operating handles rated for Type 1, 2, 3, 3R, 4/4X, 12, 13, IP55, and IP65

## Contactors and Control Relays

- Contactors: 9 to 105 Amps
- Contactors: 100kA SCCR @ 480V and 600V with Class J fuses
- Contactors: AC and DC - electronic coil control on DC devices
- Control Relays: Bifurcated contactors
- Control Relays: Rated 16A AC-1, A600, and Q600 for applications up to 600V

## Terminal Block Relays

- Rated load: 6A, 250VAC/30VDC
- Single-Pole, Double-Throw contacts
- Screw termination
- Most common AC/DC coil voltages: 12V, 24V, 110-125V, 220-240V

## Industrial Power Supplies

- Designed to deliver the power with up to 93% efficiency
- Adjustable voltage options in 12, 24, and 48V
- Output power range from 60W to 480W
- DC OK relay contacts are standard on 240W and 480W
- Compact design - 43mm wide, up to 60mm

## Control Circuit Transformers

- Ratings from 20 to 300VA
- Operating voltages from 120V to 480V on primary side, and 24V on secondary side
- Over-current protection options; inherent or non-inherent, or manual resettable circuit breaker
- Integrated grounding system and space-saving footprint
- Versatile for Class 2, Class 3, and general purpose applications

## Overload Relays

- Available in five frame sizes with a current adjustment range of 0.28 - 112A
- High fault SCCR of 100kA @ 480V and 600V with Class J fuses
- Full load current adjustment ratio of approx. 1:1.5 enables relay to be set to exact FLA of motor
- Single phase sensitivity to protect motors against damaging phase loss conditions
- Manual or automatic reset and test modes, and stop button all in a single device

## Motor Protection Circuit Breakers

- Multi-Function: Manual Motor Controller, Motor Disconnect, Group Motor Installations
- 50kA SCCR @ 480V
- Self-protected Type E up to 50kA @ 460V
- FLC up to 32 Amps
- Trip Class 10 Thermal and Magnetic Elements

## Direct-On-Line Starters

- Open-style starters consist of either a Contactor & Overload Relay, or a Motor Protection Circuit Breaker & Contactor
- Enclosed starters come pre-wired with a variety of pilot device options
- Factory assemblies provide the convenience of a single catalog number and shorter control panel bill of material

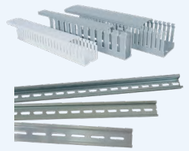
## IEC Terminal Blocks

- Screw Clamp, Spring Clamp, and Miniature
- 5mm - 25mm widths
- 25 - 230 Amps
- Feed Through, Ground, Multi-Conductor, Double & Triple Level, Fuse Holder, Power Distribution, and more
- DIN Rail mounting; snap-on, snap-off assembly

## High Density & CT Shorting Terminal Blocks

- 2, 4, 6, and 12-point in a single molded housing
- Rated for 600V, 30A continuous service
- Replacements for the GE CR151, GE EB25/EB27, and Marathon 1500/1700 Series
- Integrated 35mm DIN rail snap and panel mounting construction
- Captive screws with spring-return open terminals

## Wire Duct & DIN Rail

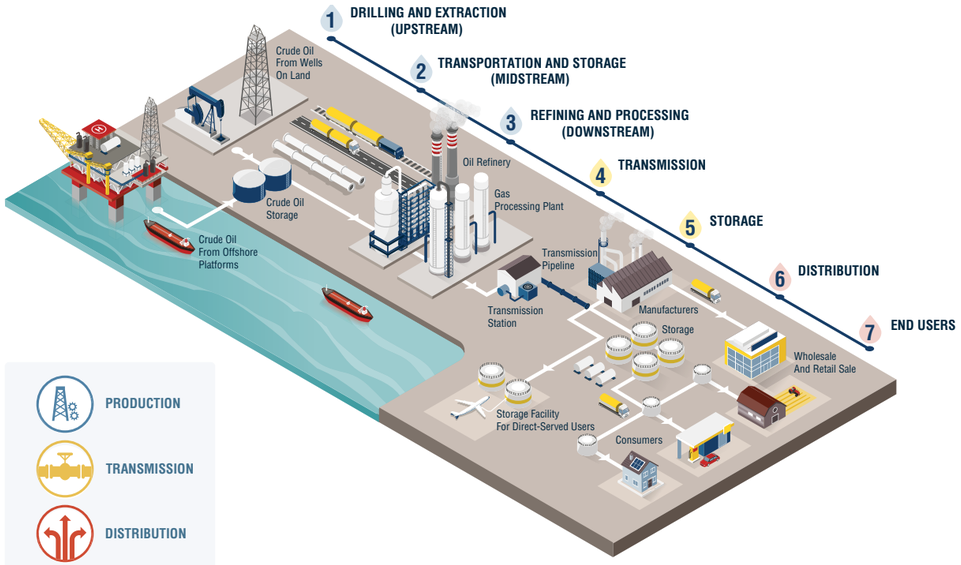


- Wire Duct: 13 dimensions from 25mm wide up to 80mm, and up to 2m in length
- Wire Duct: Narrow and Wide Slot
- DIN Rail: 35mm rails in steel and aluminum
- DIN Rail: 1m (3.28ft) or 2m (6.56ft) lengths
- DIN Rail: Standard package quantities, or pallet options available

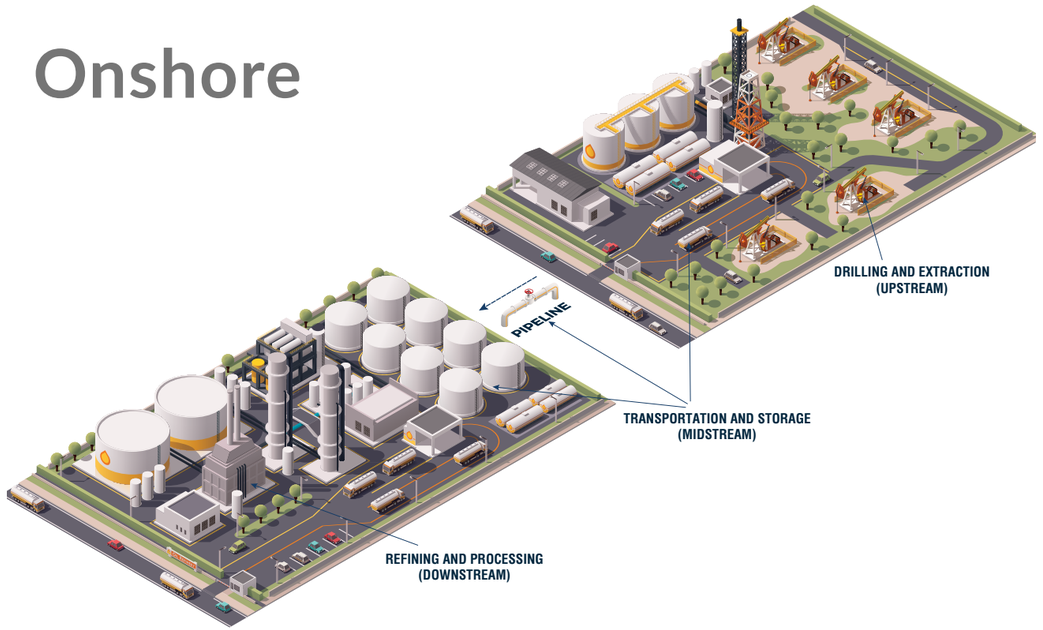
# Oil & Gas Isometrics

*No matter what stage of the process your customers support, our electrical controls can help!*

## Offshore




## Onshore




# Product Portfolio

*Our 17 million+ product configurations deliver durability and reliability—even in the most punishing environments—meeting and exceeding global standards for quality and safety.*

**DISCONNECT SWITCHES**
NON-FUSED & ENCLOSED

**MINIATURE CIRCUIT BREAKERS**

**CONTACTORS & CONTROL RELAYS**

**OVERLOAD RELAYS**

**DIRECT-ON-LINE STARTERS**
CONTACTOR + OVERLOAD RELAY

**ENCLOSED DIRECT-ON-LINE STARTERS**
CONTACTOR + OVERLOAD RELAY

**MOTOR PROTECTION CIRCUIT BREAKERS**
OPEN & ENCLOSED

**DIRECT-ON-LINE STARTERS**
MOTOR PROTECTION CIRCUIT BREAKER + CONTACTOR

**ENCLOSED DIRECT-ON-LINE STARTERS**
MOTOR PROTECTION CIRCUIT BREAKER + CONTACTOR

**30MM PILOT DEVICES**
FOR INDUSTRIAL & HAZARDOUS LOCATION

**22MM PILOT DEVICES**
IEC & NEMA

**WORLD TOWER LIGHTS**

**CAM SWITCHES**

**16MM PILOT LIGHTS**

**13MM PILOT LIGHTS**

**CONTROL STATION ENCLOSURES**

**ENCLOSED UL508A COMBINATION MOTOR STARTERS**

**ENCLOSED POWER SUPPLIES**

**VFD BYPASS PANELS**

**INDUSTRIAL POWER SUPPLIES**

**CONTROL CIRCUIT TRANSFORMERS**

**CONTROL POWER TRANSFORMERS**

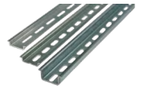
**TERMINAL BLOCKS**

**TERMINAL BLOCK RELAYS**

**ELECTRONIC TIMING RELAYS**

**GENERAL PURPOSE RELAYS**

**WIRING DUCT**



**DIN RAIL**

# White Papers

*Product professionals AND subject experts!*
*Check out c3controls' extensive library of white papers:*


### US Oil & Gas / Petrochemical Industry - New Trends in Technology

Explore the transformative journey of the US Oil & Gas/ Petrochemical industry as it embraces cutting-edge technology to enhance efficiency, sustainability, and competitiveness. Discover how digitalization, automation, AI, and...

READ WHITEPAPER


### Complete Guide to Class/Division Hazardous Locations for North America

Explore the Class/Division hazardous locations in North America, including classification systems, explosion risks, safety measures, and compliance with NEC/CEC standards to ensure industrial safety. Read now for more!

READ WHITEPAPER


### Electrical Controls In Harsh and Hazardous Environments: Understanding Class 1 Division 2

This white paper outlines the risks of hazardous locations and explores how proper classification, certified equipment, and explosion-prevention methods help industries ensure safety, compliance, and operational reliability.

READ WHITEPAPER


### The Importance of Class 1, Division 2 in Industrial Electrical Controls

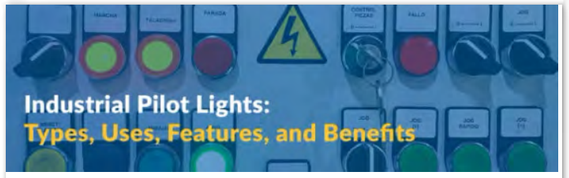
Understand Class I, Division 2 electrical classifications and how they impact industrial control systems. Learn about explosion-proof enclosures, compliance, and safety standards. Download the c3controls whitepaper now!

READ WHITEPAPER


### Controlling Hazardous Energy with OSHA Lockout/Tagout (LOTO) Procedures

Discover the essential insights and strategies in our in-depth whitepaper on Lockout/Tagout (LOTO). Gain a comprehensive understanding of the standard, explore the latest compliance devices, and learn how to safeguard your employees while...

READ WHITEPAPER




### Industrial Pilot Lights: Types, Uses, Features, and Benefits

Explore everything about industrial pilot lights — their types, features, and applications across industries. Learn how LED, multi-color, and fusible indicator lights improve safety, efficiency, and reliability in modern control systems.

READ WHITEPAPER



# Why choose c3controls

## Integrated Manufacturing

*Vertical integration is the cornerstone of c3controls as it places innovation, development, design, manufacturing, testing, and shipping all within our control. With Everything Under Control, we can ensure the highest quality and customer satisfaction.*

## Innovation

*Product innovation is in our DNA. We approach our products as solutions. Unlike our competition, our business model allows us to provide customers with premium controls without the premium price.*


## Same-Day Shipping

*Reduce inventory. Improve cash-flow. Save money. Our customers enjoy peace of mind knowing they'll get what they need, when they need it. Our promise, guaranteed!*

## Limited Lifetime Warranty

*With total control over engineering and manufacturing, we are able to guarantee the highest quality products on the market—products free of defects in material, workmanship, and design.*

## Advantage Pricing

*Total control means lower overhead and direct sales. For our customers, this translates to savings of up to 40+% on c3controls premium products.*

## Customer First

*Commitment to the success of our customers is a core value and the driving force behind all we do. We promise concierge style service that makes doing business easy, personalized, and responsive.*

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c3controls®
*Everything under control.*