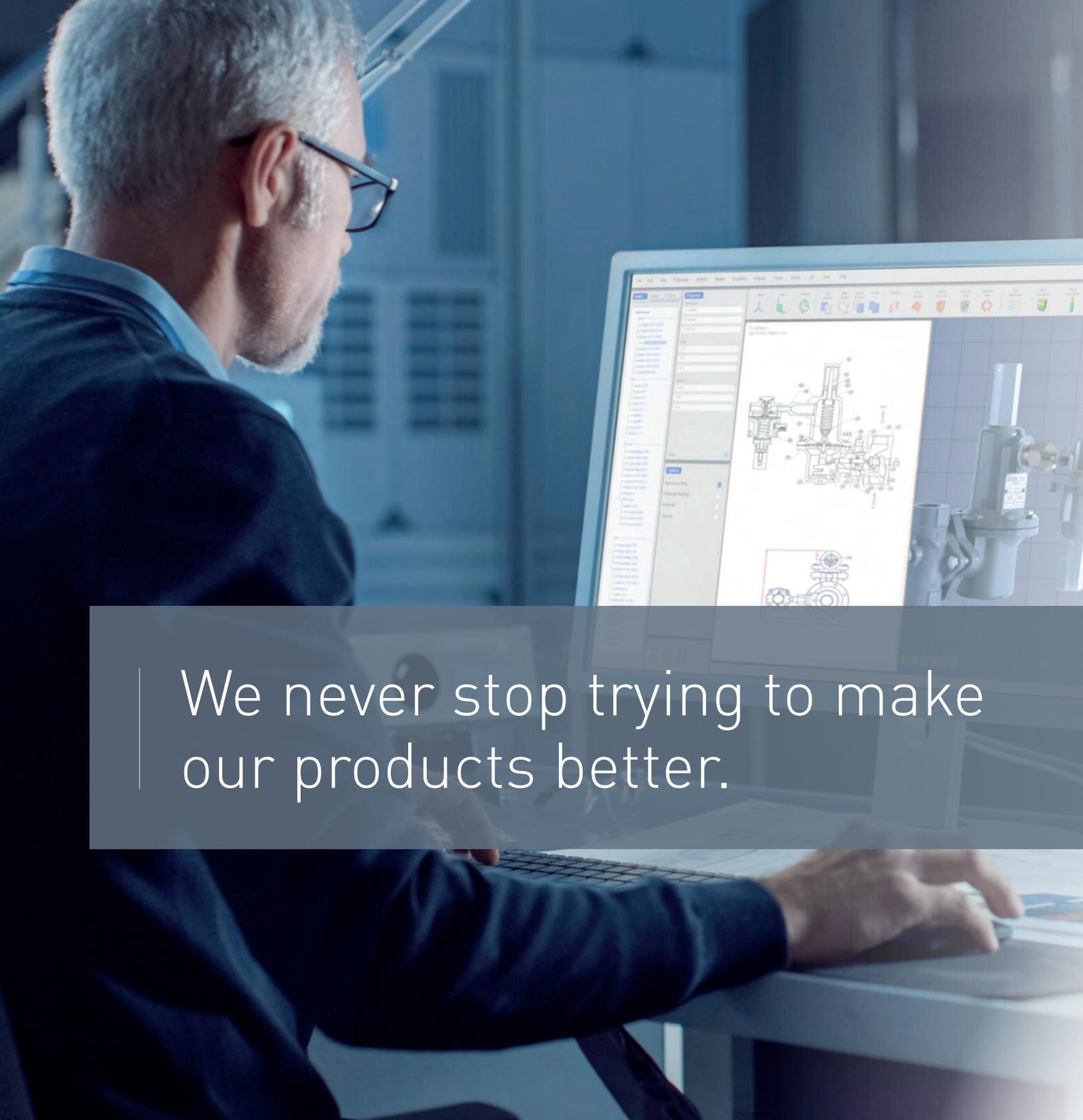


# NEW:

## Innovations for Tomorrow and Beyond



from the Marsh Bellofram Group of Companies.



We never stop trying to make our products better.



## Today is the gateway to tomorrow.

What's the value of a day? Today is the proving ground for tomorrow's solutions.

When excellence is your baseline, innovation is sure to follow.

Virtually all critical industries today are driven by process and improved by automation.

This is the realm of the Marsh Bellofram Group of Companies.

Innovation truly drives us. We take pride in the partnerships we forge with customers, overcoming their challenges with leading-edge solutions to make them more profitable.

This invention can take many forms. We break new ground to ease our customers' reliance on an increasingly overwhelmed global supply chain. We create novel solutions to unique production challenges.

We develop custom permutations to tried-and-true existing line items. Whatever the need, we find the way.



Here are the innovations we introduced in the previous year...and a preview of what's to come.

This is today. Now, we're already working on tomorrow.

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Visit the BelGAS site: [mb-belgas.com](http://mb-belgas.com)

**WHAT'S NEW** // // // INNOVATIVE NEW BELGAS PRODUCTS CURRENTLY AVAILABLE:



**P63 Relief Valve/ Back Pressure Regulator**

The BelGAS P63 is a pilot-operated relief valve or backpressure regulator. The BelGAS P63 Backpressure Regulator and Relief Valve are both used to maintain upstream pressure below the desired set point.

**What's new about it:**

- 2" and 4" high-capacity relief valve/back pressure regulator
- Highest capacity relief valve in the BelGAS product line
- Actuator version available
- Options for travel indicator

**What it can do for you:**

- Offers high accuracy through pilot operation
- Offers easy maintenance with top-entry construction



**Type P1098 Pressure Reducing Regulator**

The BelGAS P1098 pressure regulator is an accurate and economical pressure control device for large-volume gas use in pressures from inches of water column up to 75 PSIG output pressure.

**What's new about it:**

- New 2" NPT body
- Can now connect directly to 2" NPT pipe
- Lighter weight

**What it can do for you:**

- Offers easy installation
- Provides a lighter weight, more economical option than flanged versions





## PG103/PG105 Line Pressure Regulators

PG103/PG105 line pressure regulators are manufactured to supply the highest performance both as Line Pressure Regulators certified to ANSI Z21.80 CSA 6.22 and Gas Appliance Regulators certified to ANSI Z21.18 CSA 6.3 and feature precise regulating control.

### What's new about it:

- New product line for BelGAS
- Line Pressure/Appliance Regulators with 3" and 5" diaphragm sizes
- 1/2", 3/4", and 1" port sizes available
- ANSI/CSA Certified
- OPD for 5 PSI service in development

### What it can do for you:

- Increases versatility for indoor applications with vent limiter installed
- Ensures precise control from full flow to pilot flow



## Type P143M Gas Pressure Regulator with Internal Monitor

P143 with Internal Monitor. The P143M comes equipped with a sliding orifice and second seat. In the event of the primary seat being unable to achieve lockup, the diaphragm plate continues to rise and the lever pushes the seat and orifice through the orifice collar and against a second seat located on the opposite side of the regulator body.

### What's new about it:

- P143 regulator with a built-in internal monitor
- Offers the same form and fit as the standard P143

### What it can do for you:

- Provides back up protection, via the monitor, if primary regulation fails
- Ensures continuous functionality as the monitor seat is independent from the primary seat and will still function even if the primary seat is compromised.



**WHAT'S COMING** // // // **INNOVATIVE BELGAS PRODUCTS TO COME:**



**PL85**

The BelGAS PL85 is a high-pressure pilot typically used with the P1098 and P63 pilot-operated regulators. Scheduled Launch Date: Q4, 2022

**What's new about it:**

- High-pressure pilot option for P1098 and P63
- Multi-port configuration for flexible piping configurations

**What it can do for you:**

- Allows higher pressure ranges for P1098 and P63
- Offers easy maintenance through removable cartridge design
- Improves product life with rugged stainless steel construction



**PL61**

The BelGAS PL61 is a pilot typically used with the P99 and P1098 pilot-operated regulators. The PL61 was initially integral to the P99, but now it is offered in a standalone form.

Scheduled Launch Date: Q4, 2022

**What's new about it:**

- P99 pilot re-designed as an external standalone pilot
- Stainless steel or brass filter available

**What it can do for you:**

- Allows you to adjust the pressure of a system when paired with a regulator or control valve
- Offers a wide pressure range from 3" to 600 PSIG





## P139 Self-Operating Regulator

The BelGAS P139 is a high capacity, self-operating regulator that is intended to be used when a P133 is not large enough to handle the application. The P139 also has the ability to integrate a slam shut.

Scheduled Launch Date: Q4, 2022

### What's new about it:

- Brand new product for BelGAS
- 3" direct-acting regulator
- High-capacity flow

### What it can do for you:

- Offers easy maintenance with top-entry construction
- Increases versatility with OPSO/UPS0 available
- Touts a counterbalanced design





Visit the Marsh Instruments site: [marshgauges.com](http://marshgauges.com)

## WHAT'S NEW // // INNOVATIVE NEW MARSH INSTRUMENTS PRODUCTS CURRENTLY AVAILABLE:



### Differential Pressure Gauges

Marsh Differential Pressure Gauges measure the difference between two pressures in a system. This comparison allows the user to tell whether or not the equipment is functioning properly.

#### What's new about it:

- Various dial sizes (2.5", 4", 4.5", 6") and custom dials available
- Aluminum or 316SS wetted parts
- Static pressures up to 6000 PSI
- In-line, bottom, or back connections/ports

#### What it can do for you:

- Offers peace of mind with a high-quality, durable, accurate gauge from a trusted name
- Saves time with a wide variety of configurations in stock, ready to ship
- Helps extend equipment life and prevent malfunction



### Diaphragm Seals

Diaphragm seals are isolation devices that separate pressure gauges and other instruments from the process media while allowing the instrument to measure the process pressure. The service life of the instrument is greatly extended, because it is protected from corrosion, clogging, freezing, or pulsation.

#### What's new about it:

- Expanded product offering
- New configurations including: threaded, flanged, and sanitary
- Now available in stainless steel as well as a variety of custom materials to prevent corrosion.

#### What it can do for you:

- Reduces lead times with standard configurations in stock, ready to ship
- Maximizes flexibility via custom configurations with quick turnaround times
- Extends product life with new materials and configurations that resist corrosion, clogging, freezing, and pulsation





## Thermowells

Thermowells are protective sheaths used to allow for the safe installation and removal of temperature instruments. Thermowells also protect the instrument against process pressures and are offered in a wide variety of materials to resist corrosion.

### What's new about it:

- Expanded product offering
- New configurations including: threaded, flanged, and sanitary
- Now available in stainless steel as well as a variety of custom materials to prevent corrosion

### What it can do for you:

- Reduces lead times with standard configurations in stock, ready to ship
- Maximizes flexibility via custom configurations with quick turnaround times
- Extends product life with new materials and configurations that resist corrosion and isolate the instrument



## WHAT'S COMING // // INNOVATIVE MARSH INSTRUMENTS PRODUCTS TO COME:



### LS Series

Low Pressure Gauges from Marsh Instruments incorporate a diaphragm element allowing for accurate low-pressure readings in support of a variety of applications, with ASME Grade A 2/1/2% accuracy for ranges above 30" of water. The G44 Series features corrosion resistant stainless steel case with brass or stainless steel internals.

**Scheduled Launch Date: Q1, 2023**

#### What's new about it:

- Corrosion resistant stainless case with brass internals
- Corrosion resistant stainless case with stainless internals

#### What it can do for you:

- Accurately measure low pressures in applications that require corrosion-resistant case or internal materials



### Digital Pressure Gauges

Marsh is introducing a line of battery-operated digital pressure gauges that will allow portable, high-accuracy pressure measurement

**Scheduled Launch Date: Q2, 2023**

#### What's new about it:

- Large, easy-to-read, backlit, LCD display
- Selectable pressure units
- Optional protective rubber cover
- Optional powered version

#### What it can do for you:

- Allows for use in portable applications with 9V battery operation and no moving components
- Maximizes product life with resistance to corrosion, drop, shock, and vibration





## Pascal Isolator Ball Valve

Pascal Isolator Ball Valves will be used for testing or isolation of a safety relief valve. These ball valves feature male-by-female NPT welded construction to ensure leak-proof design and durability.

**Scheduled Launch Date: Q2, 2023**

### What's new about it:

- Locking handles
- Seal-welded construction
- Blowout stem
- Full port
- NACE compliant construction

### What it can do for you:

- Allows you to test or isolate the safety relief valve without having to shut down the process



## Liquid-Filled / Severe Service Gauges

Marsh Instruments Severe Service Liquid Filled Gauges are designed to provide reliable pressure measurements in harsh and demanding environments, particularly where pulsation and vibration are a concern. In an effort to continually expand the offering of severe service gauges, Marsh is adding several dial sizes and panel mount options.

**Scheduled Launch Date: Q2, 2023**

### What's new about it:

- Expanded Offering 1.5" Severe Service Gauge
- Expanded Offering 2" Severe Service Gauge
- Expanded Panel Mount Offering including U-clamp and front flange gauges

### What it can do for you:

- Allows gauges to be used in a wide variety of applications requiring different sized dials, as well as panel mount applications





Visit the ATC/Diversified Electronics site: [atcdiversified.com](http://atcdiversified.com)

## WHAT'S NEW // INNOVATIVE NEW DIVERSIFIED ELECTRONICS DIVISION PRODUCTS CURRENTLY AVAILABLE:



### Non-Fused Disconnect Switch

ATC Diversified's Non-Fused Disconnect Switches deliver superior performance in the most rugged applications and are certified as Manual Motor Controllers Suitable as Motor Disconnects for motors up to 40HP at 480V (55kW at 400V). Panel/Base and door mounting options allow switches to be installed in virtually any enclosure.

#### What's new about it:

- Brand new product for ATC Diversified Electronics
- UL Listed
- Certified to CSA Standards
- CE Marked

#### What it can do for you:

- Allows for use as a motor disconnect
- Increases versatility, as they're rated for a variety of environmental applications
- Speeds up installation with simple wiring
- Increases safety with padlockable switches



### Miniature Circuit Breaker

ATC Diversified offers a comprehensive Miniature Circuit Breaker line designed and manufactured to meet the needs of the machine builder. Our mini circuit breaker is the safest in the industry and offers efficient, flexible, user-friendly design and functionality.

#### What's new about it:

- Brand new product for ATC Diversified Electronics
- UL Listed and Recognized
- CE Marked
- Industry-Leading Short Circuit Rating

#### What it can do for you:

- Offers full-range circuit protection
- Allows for application flexibility
- Speeds up installation with simple wiring
- Improves safety and efficiency with trip-free design





## Contactors

The complete range of ATC Diversified’s Non-Reversing Contactors share common accessories, reducing inventory and enabling the devices to be customized for each application. Small size, IP20 guarded terminals with dual terminal markings, enhance the features and performance of your equipment.

### What’s new about it:

- Brand new product for ATC Diversified Electronics
- UL Listed
- CE Marked
- IP20 Guarded Terminals

### What it can do for you:

- Improves efficiency and saves money with long electrical life
- Offers easy installation
- Enhances the features and performance of equipment
- Saves space in a panel with its small size



## Motor Protection Circuit Breaker

ATC Diversified’s Motor Protection Circuit Breakers provide reliable overload and short circuit protection and are ideal for use in group motor installations—providing space, labor and cost savings. For the simplest applications, they can also be used by themselves as manual motor controllers.

### What’s new about it:

- Brand new product for ATC Diversified Electronics
- UL Listed
- CE Marked
- Adjustable Current Setting

### What it can do for you:

- Provides space, labor, and cost savings
- Increases versatility, as they can be used as manual motor controllers
- Offers easy installation





## Bimetallic Overload Relays

ATC Diversified's Overload Relays provide thermal Trip Class 10 overload protection for single and three-phase motors, and phase loss protection for three-phase motors. Other features like IP20 guarded terminals with dual terminal markings, integral stop button, and direct mounting will help you reduce your total installed costs and enhance the features and performance of your equipment.

### What's new about it:

- Brand new product for ATC Diversified Electronics
- cULus and CE Marked
- Adjustable Current Setting
- Selectable Reset Mode

### What it can do for you:

- Reduces installed costs
- Enhances the features and performance of equipment
- Saves space in a panel with its small size
- Offers easy installation



## SENSERT

SENSERT is a remote, cloud-based process monitoring and alert system. A variety of sensors, such as temperature, humidity, vibration, and pressure, can be used for this process monitoring. The sensors can be hardwired directly to the SENSERT Base Unit or wirelessly connected via the SENSERT Remote I/O. The Remote I/O then communicates sensor data to the Base Unit via Bluetooth Mesh.

### What's new about it:

- Brand new product(s) for ATC Diversified Electronics
- 2 versions + communication accessory
- WiFi Base Unit, Cellular Base Unit, Remote I/O

### What it can do for you:

- Allows you to access data from anywhere at any time
- Reduces overall maintenance costs
- Reduces emergency repairs
- Makes predictive maintenance a reality
- Ensures affordability



## WHAT'S COMING // INNOVATIVE DIVERSIFIED ELECTRONICS DIVISION PRODUCTS TO COME:



### MPA2

The MPA2 is a micro-controlled based three-phase Motor Performance Analyzer Relay, specifically designed to protect electric loads and motors from failure and damage due to common current and voltage faults.

Scheduled Launch Date: Q4, 2022

#### What's new about it:

- Successor to the MPA from ATC Diversified Electronics
- Offers much lower cost than the original MPA
- RS485 Communication Cable

#### What it can do for you:

- Offers protection for your most important equipment
- Measures current, voltage, frequency, power factor, reactive power, real power, and energy consumption
- Provides a variety of reports



### Current Transformers

A current transformer is used for protection and measurement purposes in a power system. Current transformers can be used to reduce or multiply an alternating current. External current transformers may be used to extend the range of the AC Current Monitors.

Scheduled Launch Date: Q4, 2022

#### What's new about it:

- Direct replacement for previous Current Transformers from ATC Diversified Electronics
- Significant cost reduction

#### What it can do for you:

- Allows you to measure alternating currents in a power system
- Allows you to produce a proportional alternating current in its second winding





## Power Supplies

Power supplies are devices that supply power to an electrical load. They are designed to convert and regulate electric current from a source to the proper voltage, current, and frequency required to power a load.

**Scheduled Launch Date: Q4, 2022**

### What's new about it:

- Brand new product for ATC/Diversified
- CE Certified
- 4 versions: 60W, 120W, 240W, and 480W

### What it can do for you:

- Offers overload, over voltage, output short circuit, and over temperature protection
- Saves space with compact size (60W and 120W versions)



## MPA2 SMART

The MPA2 SMART is a micro-controlled based three-phase Motor Performance Analyzer Relay, specifically designed to protect electric loads and motors from failure and damage due to common current and voltage faults.

**Scheduled Launch Date: Q1, 2023**

### What's new about it:

- Successor to the MPA from ATC Diversified Electronics
- Offers much lower cost than the original MPA
- RS485 Communication Cable
- Compatible with SENSERT

### What it can do for you:

- Offers protection for your most important equipment
- Measures current, voltage, frequency, power factor, reactive power, real power, and energy consumption
- Provides a variety of reports
- Allows you to receive MPA2 data on your cell, tablet, computer, etc.





## Temperature Controller

Temperature controllers are designed to keep an object or process at a desired temperature by measuring temperature and regulating the output of heating elements based on the programmed setpoint(s).

Scheduled Launch Date: Q2, 2023

### What's new about it:

- Replaces existing ATC550
- UL Listed
- 4+4 digits, 7 segment LED dual display
- TC/RTD input
- Auxiliary output
- 2 Versions: 24 V AC/DC [ATC560S0PX], 90-270 V AC/DC [ATC560SONX]

### What it can do for you:

- Allows you to measure and/or control temperature for a variety of applications
- Improves readability with a larger display
- Saves space with a shorter housing
- Increases application versatility with two control functions: PID and ON-OFF control
- Offers two customizable set points



## Hour Meter / Counter

An hour/meter counter provides elapsed time or a count metered from processes, equipment, or machinery.

Scheduled Launch Date: Q2, 2023

### What's new about it:

- Replaces old style hour meters
- 6 digits time/count totalizer
- 7 segment LED display
- Dry contact and voltage inputs
- 2 versions: 10-30 V DC [5710A], 90-270 V AC/DC [5710D]

### What it can do for you:

- Allows you to track time or counts
- Saves space with compact design
- Provides several timing ranges
- Tracks up to 999,999 counts



The image is a composite of two industrial scenes. The top half features a complex network of large, polished metal pipes and machinery, bathed in a cool blue light. The bottom half shows a similar industrial setting with a focus on a walkway with metal railings and various pipes, illuminated by a warm orange glow. A semi-transparent dark blue rectangular box is overlaid across the center, containing white text.

New directions can come from any of our divisions.

## Many markets served. One guiding principle.

Marsh Bellofram is a family of 13 companies sold under five fully dedicated divisions, each powered by experienced technical sales, applications engineering, and customer service support personnel. The next wave of industry innovations can, and does, originate with any of them. They serve varied markets and are united by the pursuit of developing high-performing products for critical applications.



### OIL & GAS



### INSTRUMENTS & GAUGES



### PROTECTION



### ELASTOMERS



### MEDICAL





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