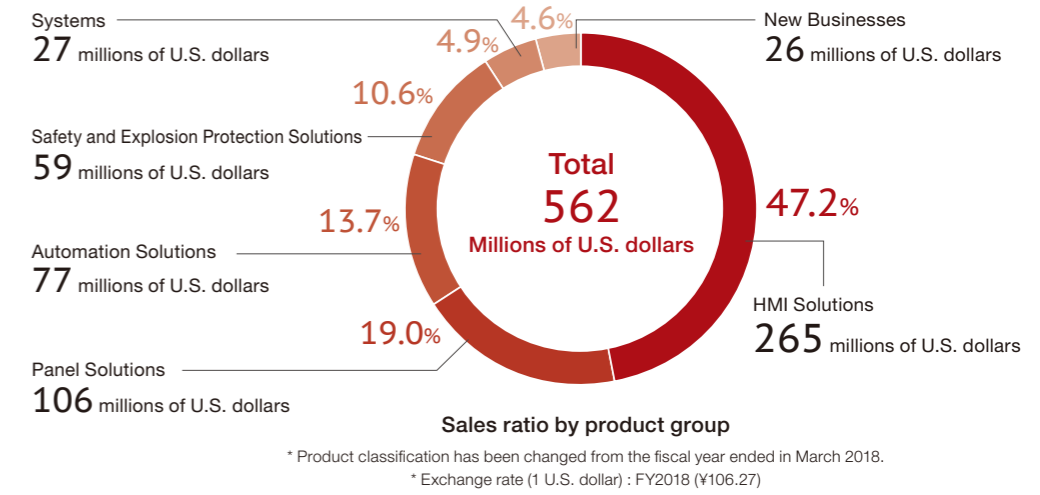


Product Groups

Providing optimal products and solutions that meet the needs of the times

To respond to diverse and changing customer needs over time, IDEC provides a broad range of products and solutions centered on its control technology. We are committed to supporting the future of manufacturing and daily life by continuously providing new value through the use of core technologies we have innovated over many years.



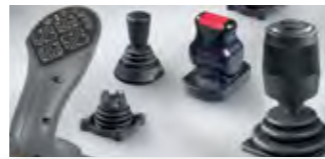
HMI Solutions



Control switches

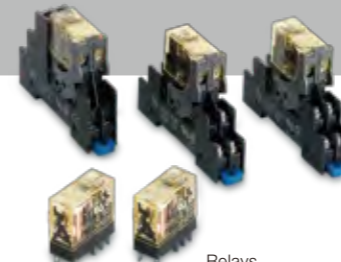


Emergency-stop switches



Joysticks

Panel Solutions



Relays



Terminal blocks



Switching power supplies

Automation Solutions



Programmable logic controllers



Operator interfaces



Sensors

Safety and Explosion Protection Solutions



Explosion protection devices



Safety-related devices



Safety-related devices

New Businesses



Collaborative safety robot systems



Operation of collaborative safety robot website



Provision of application packages

New Businesses



Renewable energy business



Next-generation agricultural solutions



Ultrafine bubble generators



HMI Solutions

Creating an optimal environment for people and machines by leveraging control technologies accumulated since our founding

As a leading company in the field of Human-Machine Interface (HMI)—the point of contact between people and machines—IDEC contributes to realizing a safe and secure society by providing innovative solutions globally, not only for the factory automation (FA) industry but also in familiar daily-life situations.



In 2017, the French manufacturer of industrial switches APEM Group joined the IDEC Group. By broadening our product lineups and expanding into new markets, we can offer a wider variety of products to customers in a more diverse range of industries.

HMI Solutions Lineup

Control switches



Emergency-stop switches



Buzzers



Pilot lights

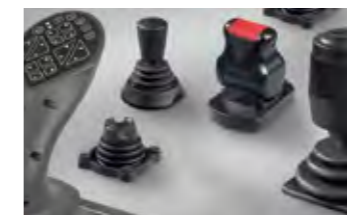


APEM's Products

Industrial switches



Joysticks



Keyboards



LED indicators



TOPICS

Globally standardizing contact blocks for our mainstay control switches

The new universal contact block* features enhanced safety and ease of use, and contributes to the optimization of efficient inventory management. Furthermore, the global standardization of contact blocks works towards the strengthening of IDEC's competitiveness, by allowing the use of common components and materials for production, and ensuring greater manufacturing automation.

* A component for connecting a switch to various types of equipment





Panel Solutions

Resolving customers' challenges with a full lineup of products for inside the panel

Due to increasing need for space-saving and cost-reduction devices, the miniaturization of control panels has received considerable attention. IDEC solves this problem by providing customers with a varied lineup of in-panel products that enable space saving and increase operational efficiency, including relays*1 and circuit protectors.*2

*1: A switching device used to switch an electrical circuit on and off with electric signals
*2: An overcurrent protection device



A control panel is a panel that contains multiple electric devices for controlling and operating machines or production lines. Control panels are used in a wide range of applications, not only at industrial sites, but also for building facilities and elevators.

Panel Solutions Lineup

Relays



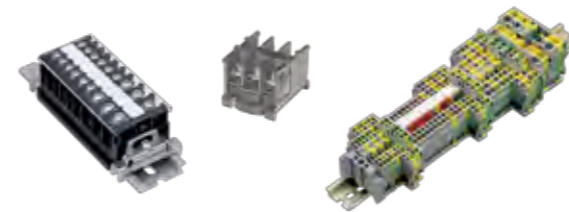
Sockets



Timers



Terminal blocks



Switching power supplies



Circuit protectors



LED illumination units



TOPICS

LED illumination units perfect for machine tools and industrial machines

LF1D/LF2D industrial LED illumination units can illuminate a broad area uniformly and brightly, contributing to increased operational efficiency. Offering a reduced reflection of the light source on the work area and significantly reduced multi-shadow effect, LF1D/LF2D LED illumination units are ideal for industrial machine applications.





Automation Solutions

Offering a broad range of solutions to meet customer needs in the era of IoT and Industry4.0, while promoting Connected Industries

Responding to diversified customer needs, such as the need for remote monitoring and operation, IDEC contributes to greater production automation and efficiency by providing a variety of products and solutions. This includes : programmable logic controllers and operator interfaces with enhanced networking functionality, sensors that can identify physical objects and changes in conditions, and code scanners and RFID systems whose demand is expanding in traceability applications.



Automatic identification system business

In August 2017, Welcat Inc., which possesses strong technological strength in the automatic identification field, joined the IDEC Group. This has enabled IDEC to strengthen its product range and sales channels. We aim to maximize our synergy with Welcat, along with IDEC AUTO-ID SOLUTIONS CORPORATION.

Automation Solutions Lineup

Programmable logic controllers



Operator interfaces



Fixed-type code scanners



Handheld code scanners



Handheld terminals



Wearable terminals



Teaching pendants*



IDEC SmartRelays



Communication devices



Sensors



TOPICS

Programmable logic controller (PLC) that easily enables IoT

IDEC released the FC6A Plus PLC, which can control large machines or an entire small-scale production line. The FC6A Plus delivers significantly improved basic performance compared to conventional PLCs. Also, using a dedicated application compatible with both iOS and Android OS, remote control from mobile terminals is possible.





Safety and Explosion Protection Solutions



Providing solutions that enhance safety and productivity, as a leading company in safety products and technologies

To realize the harmonious coexistence of people and machines, IDEC provides safety-related devices, reflecting its firm commitment to safety, reliability and ease of use.

We aim to become the number one company in the world that pursues and realizes safety, through the creation of new standards, such as the next-generation safety concept "Safety2.0", and safety promotion activities including safety consulting services.



Responding to global needs with international standards-compliant, cutting-edge, explosion protection technologies

By promoting the acquisition of overseas explosion protection certifications including IECEx (International explosion protection product certification), ATEX (the European directive for explosion protection) and UL standards (North America), we are able to offer a wide variety of explosion protection products that respond to global market needs. We also provide explosion protection LED illumination units and cameras to ensure safety in explosion protection environments, such as oil plants and chemical plants, while achieving energy savings and reduced maintenance.

Safety Solutions Lineup

- Enabling switches*
- Safety laser scanners
- Interlock switches
- Emergency-stop control boxes
- Safety consulting

TOPICS

IDEC Safety Concept

The safety concept in the HMI environment is shifting from a man-machine isolation approach, to a collaborative safety-oriented approach. In anticipation of the more widespread use of robots, driven by the robot revolution, information society characterized by IoT and the concept of Connected Industries, IDEC will continue its relentless quest to deliver safety and peace of mind to manufacturing sites.



* Safety-related devices to be incorporated into teaching pendants for robots or machine tools, etc.

Explosion Protection Solutions Lineup

- Relay barriers*
- Control boxes
- Frameproof LED
- Operator interfaces
- Network camera systems

TOPICS

Ideal for overseas plants <Explosion protection control box EC2B>

The EC2B features a stainless steel box with high corrosion and environmental resistance, compliant with major global explosion protection standards.



* A device that limits the voltage and current that can reach a hazardous area under overcurrent conditions



New Businesses



Offering optimal solutions to each customer by visualizing their problems

IDEC proposes system solutions uniquely tailored to individual customer needs, by combining optimal collaborative safety robots with safety-related devices and systems featuring its proprietary technologies. IDEC contributes to improving productivity and relieving labor shortages at industrial sites.



Creating new value by contributing to resolving social issues

Taking full advantage of the control, environmental and fine-bubble technologies it has cultivated over many years, IDEC vigorously promotes various new businesses including next-generation agricultural solutions and the renewable energy business. This contributes to the resolution of various social issues arising on a global scale, such as a decrease in the labor population and global warming.

New Business Lineup

Collaborative safety robot systems



Operation of collaborative safety robot website



Provision of application packages



Next-generation agricultural solutions



Renewable energy business



TOPICS

Collaborative safety robot systems

IDEC has established Collaborative Safety Robot Technical Centers in Aichi Prefecture and Tokyo. The Centers provide optimal collaborative safety robot systems that best fit each customer's needs, while offering proposals on the uses of robots and how to build a safety system.



Collaborative Safety Robot Technical Center (Aichi Prefecture)

TOPICS

Fine-bubble technology

IDEC aims to create new industries with its world-leading, fine-bubble technology, while at the same time working to promote the creation of international standards for this technology. We are finding applications in a wide range of fields that benefit from bubble technology, including industrial cleaning and growth promotion in agriculture and fisheries.



Ultrafine bubble generator
ultrafine Galf