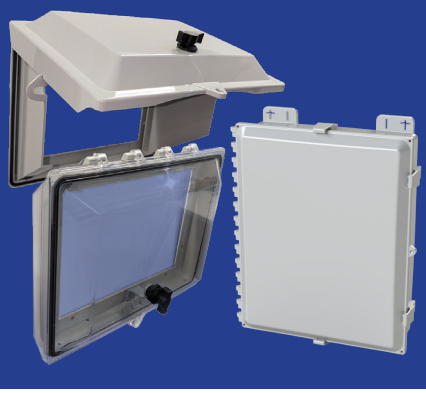
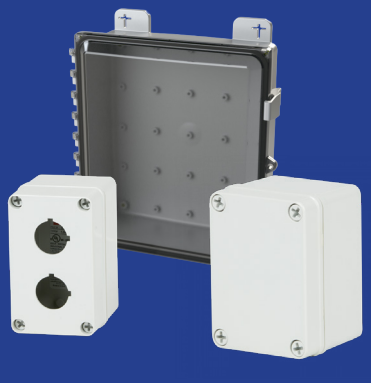


SAGINAW CONTROL & ENGINEERING

Your Enclosure Source ®

Non-Metallic Enclosures



Polycarbonate Enclosures

RUGGED APPLICATIONS REQUIRING ENCLOSURE STRENGTH

SCE's polycarbonate enclosures are over 40% stronger than the competition*, featuring thick, rigid side walls that eliminate flexing. Manufactured from a heavy-duty polycarbonate formulation, they provide high-impact resistance and excellent dimensional stability. These enclosures are widely trusted in industrial and manufacturing environments with continuous, demanding conditions.

**Results of independent testing conducted with off-the-shelf competitive polycarbonate enclosures.*

APPLICATIONS WITH LIKELY NEED FOR IMPACT RESISTANCE

Metal enclosures are vulnerable to denting upon impact, which can compromise not only their appearance but also the integrity of the seal protecting the contents inside. Polycarbonate enclosures, while lighter than metal alternatives, offer superior impact resistance.

APPLICATIONS REQUIRING CORROSION RESISTANCE

Polycarbonate enclosures are available with full non-metallic or stainless steel cover latches, as well as full non-metallic hinges that do not penetrate the enclosure. These designs meet NEMA Type 4X requirements, providing an increased level of protection against corrosion. As a result, they are well suited for use across a wide range of industries, including oil and gas, car washes, and marine environments.

APPLICATIONS WHERE EASE OF MODIFICATION IS IMPORTANT

Polycarbonate enclosures permit the transmission of wireless and radio-frequency signals, allowing internal antenna placement. Optional EMI/RFI shielding is available, providing greater application flexibility than metal enclosures.

APPLICATIONS WHERE INSTALLATION AND LABOR ARE CHALLENGES

Polycarbonate, compared with metal enclosures, is lightweight, making it easier and quicker to install; thereby being of value in overall cost reduction.

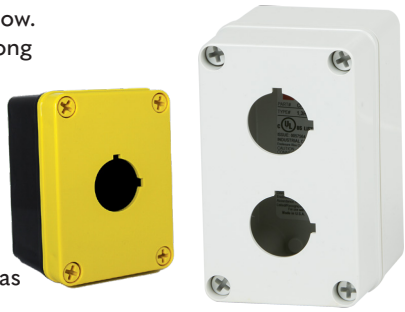
APPLICATIONS WHERE UV RESISTANCE IS IMPORTANT

Polycarbonate enclosures offer inherent resistance to UV degradation, allowing them to perform reliably over time in demanding exterior environments. They meet the F1 rating requirements for outdoor use per UL 746C.

Polycarbonate Enclosures

PUSHBUTTON ENCLOSURES

The in-line pushbutton styles are available in one-, and two-button configurations in either gray or yellow. Each style features a continuous polyurethane gasket that provides a complete environmental seal, along with a full metal grounding strap for ease of bonding.

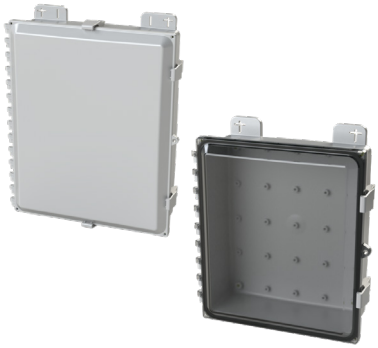


Designed as a true pushbutton station, the in-line styles do not offer a provision for panel mounting. Unobstructed sidewalls, captive stainless steel cover screws, and a compact form factor make these pushbuttons well suited for space-constrained applications.

These in-line pushbutton styles will house pushbuttons, switches, and pilot lights in both 30mm and 22mm configurations only. They are suitable for general electrical and electronic applications, as well as applications with associated environmental concerns.

WALL-MOUNT ENCLOSURES

These wall-mount enclosures are designed to accommodate electrical, electronic, instrumentation and mechanical controls indoors and outdoors where corrosion resistant watertight enclosures are needed to provide protection against windblown dust and rain, splashing and hose directed water. With the ample working space involved, this wall mount configuration, enclosure style will also accommodate combination hydraulic or pneumatic controls along with the supporting electrical control.



These polycarbonate enclosure options are available with either a clear window or opaque cover, and are offered in standard depth or slim-profile designs to meet space and visibility needs.

HINGED ACCESS ENCLOSURES

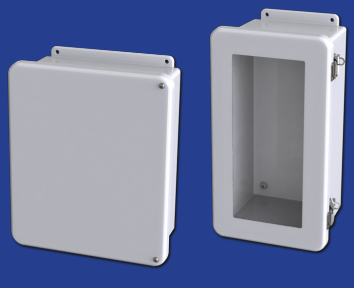
These hinged access enclosures are designed for non-hazardous industrial and commercial applications, providing reliable protection for HMI screens in both indoor and outdoor environments. Commonly used across industries such as oil and gas, industrial machinery, water and wastewater, marine, and food and beverage, they shield equipment from sun exposure, wind-blown dust, water ingress, oils, chemicals, and other harsh environmental conditions while maintaining a NEMA Type 4/4X rating when paired with a compatible HMI device.

Manufactured from impact-resistant, UV-stable polycarbonate, the hinged design features supporting inner doors for hands-free use and improved screen visibility in bright conditions. Enclosures are available with opaque or clear polycarbonate covers to allow viewing of the HMI while closed, are compatible with metallic and non-metallic enclosures, and include stainless steel hardware for durability and easy installation.

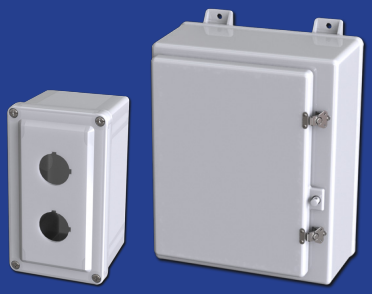
SCREW COVER ENCLOSURES

These screw cover enclosures are constructed from impact-resistant polycarbonate and are designed for industrial applications requiring durable environmental protection. The opaque cover and oil- and water-resistant pour-in-place gasket provide reliable sealing against contaminants in demanding conditions.

The screw-secured cover ensures a secure closure, while brass inserts allow for the secure attachment of mounting feet. Multiple internal bosses support easy installation of devices and DIN rails, offering flexible internal mounting options for a wide range of electrical and control components.



Fiberglass



Fiberglass Enclosures

Fiberglass material is a high-performance, molded fiberglass-reinforced polyester (FRP) used for durable, non-metallic electrical enclosures. It features proprietary technology, providing superior UV resistance, corrosion resistance, and chemical resistance in harsh environments. These enclosures are lightweight, electrically insulating, and flame-retardant, meeting UL94-5V standards.

UV RESISTANCE

Specifically engineered to resist UV degradation and fading, maintaining structural integrity and appearance in outdoor applications.

CORROSION RESISTANCE

Highly resistant to chemicals, harsh weather, and environmental factors, ideal for industrial, mining, and oil & gas, or marine use.

PHYSICAL STRENGTH

Offers high impact resistance and structural durability while being lighter than steel.

NON-CONDUCTIVE

Excellent electrical insulation properties protect sensitive equipment.

TEMPERATURE RANGE

Effective in extreme conditions, with usage ranging from -70F to +270F

Fiberglass Enclosures

PUSHBUTTON ENCLOSURES

The in-line pushbutton styles are available in one-, two-, and three-button configurations. Each style features a continuous polyurethane gasket that provides a complete environmental seal, along with a full metal grounding strap for ease of bonding.

Designed as a true pushbutton station, the in-line styles do not offer a provision for panel mounting. Unobstructed sidewalls, captive stainless steel cover screws, and a compact form factor make these pushbuttons well suited for space-constrained applications.

These in-line pushbutton styles will house pushbuttons, switches, and pilot lights in 30 mm configurations only. They are suitable for general electrical and electronic applications, as well as applications with associated environmental concerns.

WALL-MOUNT ENCLOSURES

These wall-mount enclosures are designed to accommodate electrical, electronic, instrumentation and mechanical controls indoors and outdoors where corrosion resistant watertight enclosures are needed to provide protection against windblown dust and rain, splashing and hose directed water. With the ample working space involved, this wall mount configuration, enclosure style will also accommodate combination hydraulic or pneumatic controls along with the supporting electrical control. Fiberglass reinforced polyester supports a very high temperature range and corrosion resistance when used in oil field, mining, oil platform, water/waste water and general processing controls. Yet, the pleasing cosmetic construction is ideally suited for ordinary indoor or outdoor industrial control mounting.

SCREW COVER & JUNCTION ENCLOSURES

The Junction Series of enclosures follow the original design of fiberglass enclosure products featuring a modest overhang cover on a flange mounted base. This simple but elegant concept offers unobstructed side-walls, built in mounting capabilities and the strength characteristics associated with a protective wrap around cover that is hinged, latched or screwed down. These are designed for general electrical and electronic applications and any application that has associated environmental concerns. They can accommodate standard back panel mounting that is highly visible through a cover mounted window.