

FREEDOM
CONTROL SERIES



A COMPLETE CAN BUS
CONTROL SYSTEM

FREEDOM ACS CONTROL SERIES

Storm Guard

CONTROLGUARD

The ControlGuard system incorporates our Multi-function 3-axis Joystick. The Joystick is standard with blast and pass buttons for operator ease. The ControlGuard Joystick has four operating modes and can control up to 12 valve sections and 3 axes simultaneously. This allows for the consolidation of multiple functions into one, easy to use control.

The ControlGuard System incorporates our new ACS Operator Panel with specially designed and molded tactile buttons and programmable encoders. Panel is backlit for easy night-time visibility.

Many switch options are available such as rocker and TouchGuard switches.

MOUNTING BASE

Base mountings for all popular cab designs including Mack, International, Sterling and more.



ACCESSORY BRACKET

Used for mounting additional in-cab hardware such as AVL systems, radios and lighting packages.

SG-619 w/Armrest



SG-319 w/Armrest



MULTIGUARD

The MultiGuard system incorporates many of the same features as the ControlGuard system. The operator, switch panel and armrest options are all the same. The MultiGuard designs utilize individual joysticks.

Each joystick can be specified with many different options such as single and dual axis, integrated switches for dead-man, pass and float functions.

Both the ControlGuard and MultiGuard control system allow for joystick programming for dead-band, ramp and feathering control parameters.

DISPLAY MODULE

The ACS display features a large 5.7" Transflective Technology monochrome display for ease of visibility. The display incorporates a light sensor for backlit adjustment that is programmable for night and daytime use. Our new display uses an Ethernet connection using Microsoft's Internet Explorer for data retrieval, file saving and updates.



SG219 wo/Armrest



MOUNTING TUBE

Standard diameter solid steel tube accepts all of our cab-mounted units. Shipped to your height specifications.

SG-319 wo/Armrest



Freedom ACS Control Systems Additional Features:

- All versions available with and without armrest feature.
- Event and error logs, diagnostics and data retrieval are standard in the ACS system.
- All ACS Systems use Microsoft Internet Explorer as an interface and requires no special software.
- Inputs for Road/Air temperature sensors are standard and are displayed on ACS display module. No additional hardware or proprietary displays required.

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RESERVOIRS and ENCLOSURES

Our Family of StormGuard reservoirs and enclosures is specially designed to adapt to the new Freedom ACS output modules. Our new system allows the CAN Bus output module to be wired directly to the valve in the sealed enclosures. Both designs allow for expansion of the CAN Bus system with an output slave module for additional valve PWM outputs (14 PWM outputs standard and 28 PWM outputs when expanded). Our unique ServiceGuard design combines the valve enclosure and reservoir into one compact, accessible, durable package. ValveGuard offers an excellent alternative, where frame space is limited.

SERVICEGUARD

Our new 30 Gallon ServiceGuard combination reservoir/valve enclosure is available in stainless or powder-coated mild steel. Its unique design allows for easy access to the valve compartment without special tools. It incorporates our in-tank filter system, breather and optional porting to accommodate various hydraulic systems. It can also handle other options such as low-oil, filter and temperature sensors.



VALVEGUARD

Our new ACS ValveGuard unit, shown in powder-coated mild steel, is also available in stainless steel. Enclosure is designed to accommodate up to two ACS output modules for additional valve PWM outputs. Like the ServiceGuard, access to the valve is easy for hassle-free service and maintenance. Bulkhead fitting design eliminates hoses, tubing and leak points for a longer service-free life.



Additional features for both models include

- Standard TPE wiring connectors in the output modules provide the ultimate in durability and performance.
- Inputs for electronic pressure transducer directly to the CAN Bus system via the output module allowing for hydraulic system pressure readout on the ACS display module.
- All sensors, including Prewet, Anti-Ice and Auger feedback plug directly into the output module for shorter cable lengths, eliminating the need to run wiring into the cab.

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"ACS" stands for Advanced Control System

It's the first of its kind, an all-digital CAN Bus controller - replacing switches, wiring, analog components and all their associated failure points with a compact, sealed, powerful software-driven system that installs easier, monitors and diagnoses problems faster and more efficiently.



No matter where you are, we've got you covered!

We have locations across the country, and we're still growing. With our broad spectrum of product lines, our network of organizations throughout the U.S. gives us the ability to deliver the right parts, components and services at the right time and the right price.

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