FOURTH-GENERATION DIGITAL CABIN PRESSURE CONTROL SYSTEM

Honeywell

Honeywell is taking cabin pressure system technology to new heights with the introduction of the Fourth-Generation Digital Cabin Pressure Control System (DCPCS).

The new system represents major advancement in technology for business jets and regional aircraft, this new system offers:

- High dynamic performance due to even faster valve control
- In the event of an auto system failure, there is reduced pilot workload due to new cabin altitude hold function (U.S. patent pending)
- Lower operating costs due to reduced in-service testing requirements
- Improvement in reliability over brushed and pneumatic systems
- 30% weight reduction and smaller size than prior generation systems

The Fourth-Generation DCPCS system offers distinct advantages over the legacy systems flying in today's business and regional aircraft. The faster valve actuation provides superior performance by reducing pressure bumps resulting from inflow transients and aircraft maneuvers providing greater passenger comfort.

Honeywell engineers have designed a state-of-the-art cabin pressure control system that improves performance, weight, size and maintenance at a price that accommodates business and executive jet business models.

The new Honeywell DCPCS raises the bar on service life with a three-fold improvement compared to current systems using brushed DC technologies, and adds improved built-in test coverage for dormant safety and control functions (U.S. patent pending).

The Fourth-Generation DCPCS can reduce development cycle time by up to five times using a web-based sales, specification, interface-control and artifact delivery model for programs using our fully-featured and high performance offering options. This new customer-to-Honeywell model can significantly reduce airplane-level system development costs and risks.

THE HONEYWELL DIFFERENCE

With innovations like the first Fourth-Generation Digital Cabin Pressure Control System, Honeywell continues its long legacy of pressure control system leadership that dates back more than 75 years with industry names such as Garrett, AirResearch, NormalAir and now Honeywell. You'll find our systems on regional- and large-category air transport aircraft; military fighters, trainers and cargo aircraft; light jets, turboprops and piston aircraft worldwide. More than 20,000 Honeywell cabin pressure systems are flying today.

Our background as an avionics manufacturer and integrator ensures proper system operation and a smoother path to aircraft certification. Our use of data buses and other connected aircraft technologies enables the cabin pressure control system to perform extra monitoring and prognosis functions.

Our systems can also enable creative uses of cabin air, including thrust, air-flow biasing of cabin exhaust, and multiple ventilation schemes, including fuel-vapor evacuation, discharge through jet ejectors and multiple fuselage compartment pressurizations.

FEATURES FOR ANY PLATFORM

Honeywell can perfectly match your specific aircraft configuration and comfort needs with a flexible array of cabin pressure product offerings, including:

- Thrust recovery outflow valve systems that optimize cabin air exhaust for improved fuel efficiency
- All-electric butterfly outflow valve systems optimizing system weight
- Single or multiple outflow systems to aid in cabin comfort and ventilation of heat and odors
- Digital electronic controls to fit airplane cost, performance, flexibility, and valve-configuration needs
- Pressure sensor integration to provide control and monitoring functions necessary for certification
- Pneumatic regulators and safety valves for simple control and backup positive and negative pressure-relief functionality
- Mechanical negative relief valves and pneumatic or electronic accessories to complete basic system architectural needs

Honeywell Aerospace
1944 East Sky Harbor Circle
Phoenix, AZ 85034
aerospace.honeywell.com

N61-2492-000-000 | 06/20

THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell