



INTERNATIONAL
Water-Guard

Electronic Water Quantity

PRE-SELECT SYSTEM

DESIGNED FOR 737-NG + MAX AIRCRAFT



IWG's Water Quantity Pre-Select System: A method to electronically and instantly "pre-select" desired water upload quantity prior to each flight

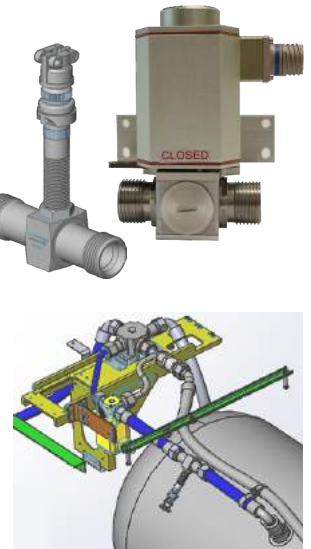
FEATURES

- The Pre-Select Panel is a Touch Screen located in the aft galley with no decals or buttons
- Allows you to instantly and precisely "preselect" desired water upload quantity prior to each flight, in five percent (5%) increments
- It stores the data on water quantity at takeoff and landing, and the data remains available for later analysis
- It has an SD card slot for expandable memory
- It has an optional GSM with SIM card module that can be enabled to extract the data, and potential for Bluetooth if preferred.
- The Graphic Display and Touch Interface in the Panel are IWG Proprietary design, meaning the System is immune to obsolescence.



BENEFITS

- Instantly and precisely select your desired water upload quantity prior to each flight, reducing all that excess water weight!
- Provides historical water usage data to better manage water quantities for improved water quantities for future flight planning and operations
- Easily fits into existing ground maintenance water fill procedures; excess water simply spills out of tank as it does today
- Takes the guesswork out of ground maintenance's futile and ineffective attempts to control water upload quantities with an analog water gauge
- Preselect desired water quantities for each flight, instead of installing stand pipes that are fixed and cannot be changed prior to each flight



The Pre-Select Controller is an interactive Touch Screen in the aft galleys Flight Attendant Panel of the 737 NG that allows the Airline to pre-set the inflow water quantity target in the Potable Water Tank.

HOW IT WORKS

- When the water in the tank reaches the Target amount, the water is diverted to the overflow line by our 3 way Motor Operated Valve (MOV) as a visual indicator to the Ground Crew that the water has reached its pre-set Target. This Tank Fill visual indicator is preserved to ensure that there is no additional training to the Ground Crew for our Pre-Select system

AVAILABILITY

- Transport Canada STC, August 2018
- FAA STC
- Application to additional countries upon request

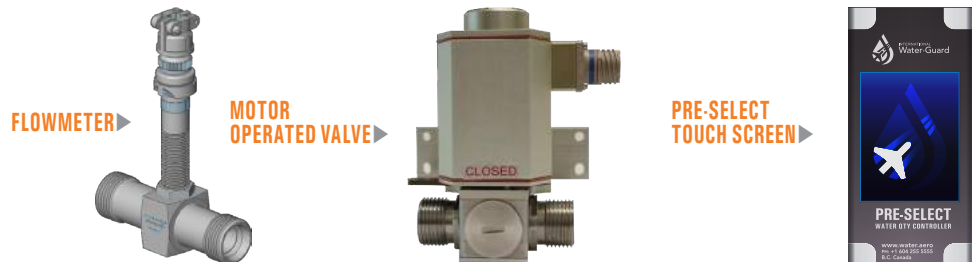
INTEGRATION

- Ease of Installation
- Simple Operation fits into Existing Procedures
- 24/7/365 AOG / Spares Support World-Wide

EASY+AUTOMATED

- System is activated during aircraft touch-down via the WOW Sensor Signal
- Once the aircraft stops and the Parking Brake is engaged, the system controller compares the water quantity in the tank to the Pre-Set water target
- If the tank water quantity is equal to or greater than the Pre-Set target the controller switches the MOV to the overflow position
- If the tank water quantity is less than the Pre-Set target, the controller switches the MOV to the Fill (Open) position
- As the ground crew uploads water from the water cart through the Service Panel, and when water in the tank reaches the Pre-Set target, the controller switches the MOV from the Fill (Open) position to the overflow position
- This results in the same visual indicator to the fill crew that the tank has been filled i.e. water spills out the overflow port. Zero Training in this case is required for the fill crew
- When the plane is ready to taxi and the Parking Brake is dis-engaged, the Controller switches the MOV back to the Open position for flight

SYSTEM COMPONENTS



IWG has a patent pending on its Pre-Select System.

All preselect system information in this presentation is understood and agreed to be treated confidential and dissemination to any third party is strictly prohibited.