

ThrustSense®

Full Regime Autothrottle



Full authority PC-12 autothrottle control
with FADEC protection



Innovative
Solutions & Support

ThrustSense® Autothrottle

ThrustSense® Autothrottle is full regime from takeoff roll to approach minimums, including go-around. Additionally, the system provides engine and speed exceedance protection. ThrustSense provides the same functionality as FADEC, with low and high speed protection for the PC-12. The system is a proven solution which improves safety & performance, is light-weight and installs with minimal downtime. LifeGuard™ engine exceedance protection allows operation consistently within PT-6 parameters thus avoiding costly inspections and repair.

ThrustSense ensures stabilized approaches by accurately controlling speeds in descent. During situations of high pilot workload, ThrustSense manages the airplane's airspeed, engine temperature & torque to automatically avoid any exceedances.

Control of this revolutionary autothrottle is housed in an easily installed Integrated Standby Flight Instrument, which provides autothrottle functionality and presentation on its high resolution LCD display. Additionally, no structural modifications are needed to the PC-12's existing throttle quadrant.



Standby Instrument commands the actuator assembly which physically moves the throttle



Existing throttle quadrant houses actuator assembly

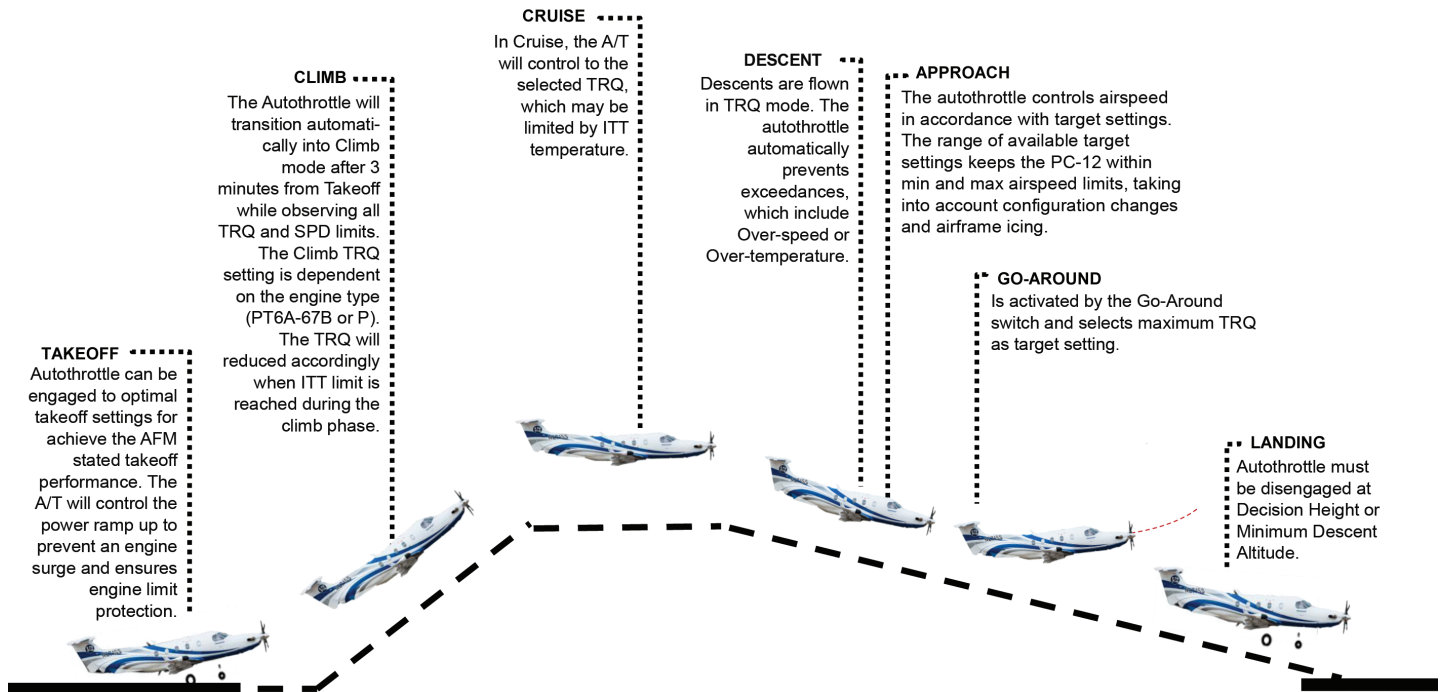
Features:

- ◆ First ever full regime autothrottle certified for PC-12 NG and Legacy
- ◆ LifeGuard™ FADEC functionality and Protection of aircraft & engine in both Manual and Automatic modes
- ◆ Hybrid mode allows pilots to fly manually with engine protection engaged
- ◆ Airspeed, mach and torque control for smoothest transitions
- ◆ Automatic takeoff is activated by manual positioning of Power Control Lever to a take off detent
- ◆ Turbulence penetration auto speed
- ◆ Over/Under speed protection

Benefits:

- ◆ Reduced pilot workload
- ◆ Reduced downtimes and maintenance
- ◆ MEL Relief and On-Condition Maintenance
- ◆ Increased situational awareness
- ◆ Stabilized approaches
- ◆ Precise capture of speed target
- ◆ Minimal force required to over-ride autothrottle system
- ◆ Integrated Standby functionality to work in any NextGen Flight Deck
- ◆ Complete installation kit minimizing downtime and requiring no structural modifications

ThrustSense® Autothrottle Operation



Quick and Easy Installation on NG and Legacy Models





Since 1988, IS&S has worked with our industry partners in developing unique and impactful cockpit avionics solutions in Commercial, Defense and Business Aviation markets. Our entrepreneurial, inventive culture has brought sophistication and efficiency to flight operations worldwide by designing systems that satisfy our customers needs, and then fully supporting their utilization of IS&S products for maximum benefit.

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