



# ENABLING YOUR DREAMS TO TAKE FLIGHT

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# PASSION\_ INNOVATION\_ TIMELESS DESIGN\_

Microair Avionics is a pioneering, technology inspired company designing and manufacturing avionic products for light aircraft for more than 25 years.

Sharing a passion for flight inspires us to create innovative avionics that combine modern technology with timeless design.

Our products are lightweight, energy-efficient and cost-effective, designed specifically for light aircraft including sport aircraft, experimental aircraft and unmanned aerial vehicles.

Our goal is to provide our customers with products that enhance their flying experience and safety without complicated setup or installation.

## Products\_



T3000  
skySuite



T3000  
Digital Pitot Static Probe



T3000  
Engine System Interface



T3000  
Autopilot



M760Q  
TRANSCIVER



T2000  
ADSB - IN & OUT



# T3000 SkySuite

## Overview\_

Experience next-generation avionics with the T3000 skySuite - a modular, integrated system designed to deliver exceptional performance, safety, and flexibility. Built to evolve with your aircraft, the T3000 empowers pilots to fly with confidence through streamlined integration of essential flight systems.

Core Capabilities and integrations include:

- VHF Communications
- VHF Navigation
- Precision Navigation Sensors
- Mode S Transponder with ADS-B Out and In
- Sunlight-readable 3.1" Instrument Displays (2.1" active area, high-resolution touchscreen)
- 30+ Pilot-selectable Instrument Faces
- Digital Intercom for up to 10 seats
- Pre-wired Headphone Plates
- USB-C 15W Power Outlet at Each Seat
- Digital Pitot Static Probe
- Through-firewall Engine and Systems Interface
- Autopilot

Whether you're installing a full suite or upgrading in stages, the T3000's modular architecture lets you customise your setup to suit your aircraft and flying needs - now and into the future. The system also features an optional 90-minute backup battery for continued display operation and a customisable digital intercom and audio system, setting new standards in modern avionics design. T3000 skySuite – Designed for today. Ready for tomorrow.



# T3000 SkySuite



## Technical Specifications\_

### MODULES

<b>VHF COMM</b>	8.33 kHz/25kHz Selectable 6, 10, 16W TX power Dual Channel Receiver	<b>TRANSPONDER</b>	Mode S ADSB In and Out ADSB Diversity Out
<b>VHF NAVIGATION</b>	Dual Channel VOR ILS (LOC/GLS) Marker	<b>BATTERY</b>	90 min at full brightness All navigation sensors Radio receiver Traffic receiver
<b>NAVIGATION SENSORS</b>	GNSS Position Source Attitude and Heading Reference System (AHRS) <ul style="list-style-type: none"> <li>• Airspeed (300 kts @ SL)</li> <li>• Altitude (55,000 ft)</li> <li>• OAT (-40°C to +70°C) (-40°F to 158°F)</li> </ul>		
<b>INSTRUMENT DISPLAY FACES</b>	Artificial Horizon Altimeter Air Speed Indicator Directional Gyro Turn Coordinator Autopilot Traffic Display Clock with Timer	Horizontal Situation Indicator Vertical Speed Indicator Radio Magnetic Indicator Engine & System Interfaces <ul style="list-style-type: none"> <li>• RPM, MAP, Fuel Flow</li> <li>• Oil Temp, Pressure</li> <li>• CHT &amp; EGT + Leaning</li> <li>• Electrical Voltage Current</li> <li>• Fuel Qty &amp; Totalizer</li> </ul>	Standby EFIS COMM Radio Controls Transponder Controls NAV Radio Controls Master Caution Checklists plus settings pages
<b>DIGITAL INTERCOM AND AUDIO SYSTEM</b>	Crystal-clear Digital audio Personalized audio control Bluetooth connectivity for entertainment USB-C Power (15W) Options for GA, LEMO and other connectors Simplified audio cabling One Audio Unit per occupant	<b>DIGITAL PITOT STATIC PROBE</b>	See page 6 & 7
		<b>ENGINE &amp; SYSTEMS INTERFACE</b>	See page 8 & 9
		<b>AUTOPILOT</b>	See page 12



# T3000

# Digital Pitot Static Probe

NORSEE APPROVED

## Overview\_

The Fully Integrated Probe, containing an Air Data Computer and an Attitude and Heading Reference System, replaces any AN5812 Pitot Probe with no extra hardware or plumbing required. Simply use the supplied data harness or our installation kit.

The Digital Pitot Static Probe provides:

Airspeed, Altitude, Vertical Speed, Angle of Attack, Outside Air Temperature, Attitude, Heading and Clock - all visible on one or more T3000 skySuite instrument displays.

## Key features\_

- Optional 120W anti-icing heater (available in either 12V or 24V) with digital temperature control.
- Triple redundant air data sensors provide optimised performance and enhanced safety.
- Digital technology with a timeless design.
- Available as a stand-alone system or a fully-integrated component of the T3000 system for Experimental and Light Sport aircraft.
- **FAA APPROVED as a backup system for Certified Aircraft.**



# T3000

## Digital Pitot Static AoA Probe

### Technical Specifications\_

**TSO Equivalence** C-16 (AS8006B)  
C-54 (ASTM3011-21)  
C-106a (AS8002B, AS8005A)  
C-113b (AS6296)  
C-20 (DO-334)  
DO-160G

**Operational Ranges** -1000 to +55,000ft  
0 to 380kts

**Input Power** 8-33VDC  
Less than 1.5W Average

**Anti-icing** Optional 120W Heater  
Available in 12V or 24V

**Operating Temperature** -40° C to +70°C (-40°F to 158°F)

**Probe Dimensions** Width 52mm  
Height 64mm  
Length 199mm  
Weight 200g (7oz)



\*NISUS Gyrocopter

# T3000

## Engine System Interface (ESI)

### Overview\_

The T3000 Engine and Systems Interface (ESI) is the heart of engine and aircraft systems data management for integration with your T3000skySuite. It captures real-time information from your engine, fuel, electrical, and sensor systems and delivers it seamlessly to your cockpit displays.

With the ESI installed, pilots gain a complete picture of engine health, performance, and critical systems status - supporting safer, more efficient flight operations.

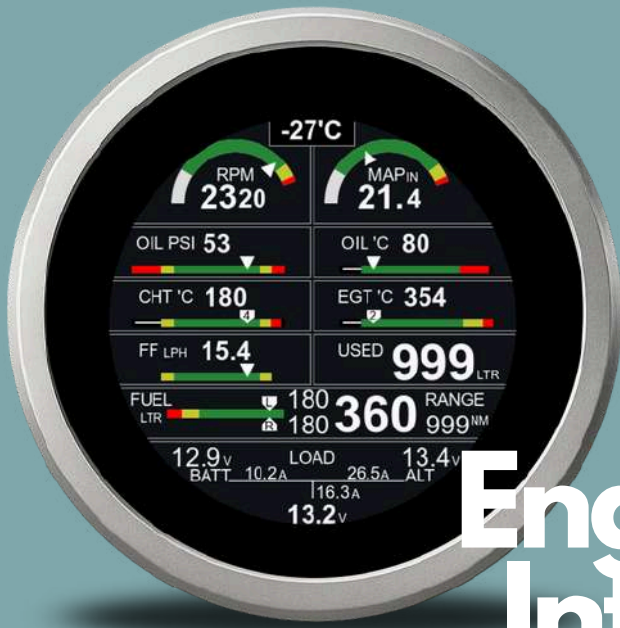
Designed for flexibility, the ESI supports a wide range of engine types and sensor inputs, making it ideal for Light Sport, and Experimental aircraft.

Whether you're upgrading or building new, the ESI delivers streamlined integration, reduced wiring complexity, and intelligent system awareness.

### Key features\_

- Innovative "Through-Firewall" installation
- Hot-side connections for Engine Sensors including:
  - Temperature (CHT x 6, EGT x 6, Oil, +3 configurable connections)
  - Fuel Flow, Oil Pressure, MAP, Alternator and Battery Voltage and Current
  - Tacho x 2 and CAN x 2 (CANaerospace)
- Cold-side connections for Systems Interface Data including:
  - Fuel Qty x 4 and Fuel Flow
  - Battery Voltage and Current
  - 6 x System Discreet Inputs (Flap position, Gear position etc) or Switched Outputs





# T3000 Engine System Interface (ESI)

## Technical Specifications\_

**TSO Equivalence** TSO-C44c  
TSO-C45b  
TSO-C47a  
TSO-C49b  
TSO-C55a  
14CFR 23.1192 firewall  
requirements

**DC Power** 8V to 33V <5W

**Sensor Power** 5V and 12V (+/-10%)

**Over Current Protection** 200mA (+/-30%) each

**Exhaust Gas Temperature (EGT)** 6 channels (1 per cylinder)

**Cylinder Head Temperature (CHT)** 6 channels (1 per cylinder)

**General Input** 6 discretes / voltages  
Ground-switch detection  
0-32V

**Outputs** 6 x Open collector outputs

**Dimensions** 59mm x 190mm x 106mm  
(approx. 2 3/8" x 7 1/2" x 4  
1/8")

## Peripherals\_

Available Separately



Fuel Flow Transducer



CHT Probe Bayonet Style  
Type K



Induction Air Probe



EGT Probe Type K



Oil Temperature



Pressure Sensor Abs 0  
- 50 Hg 1/8 F NPT



Type K Wire



Pressure Sender 150 PSI  
1/8 F NPT



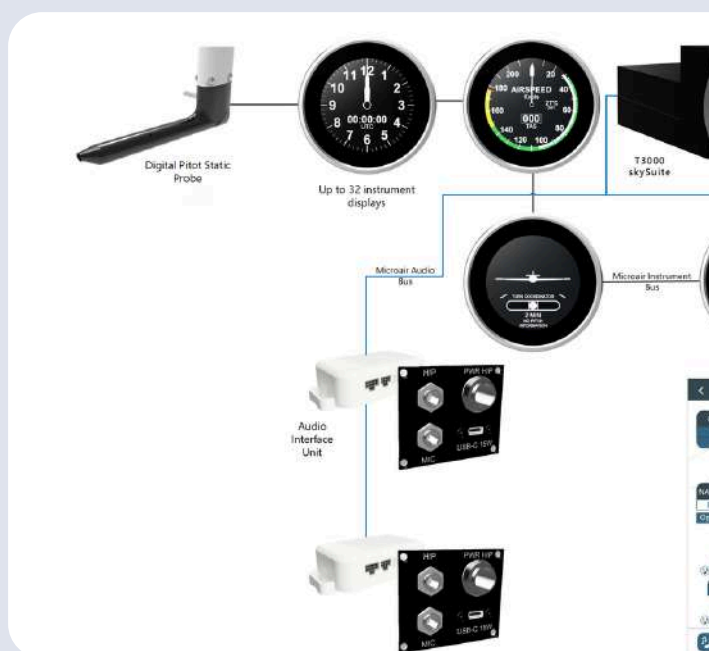
Current Bridge +/-60Amps



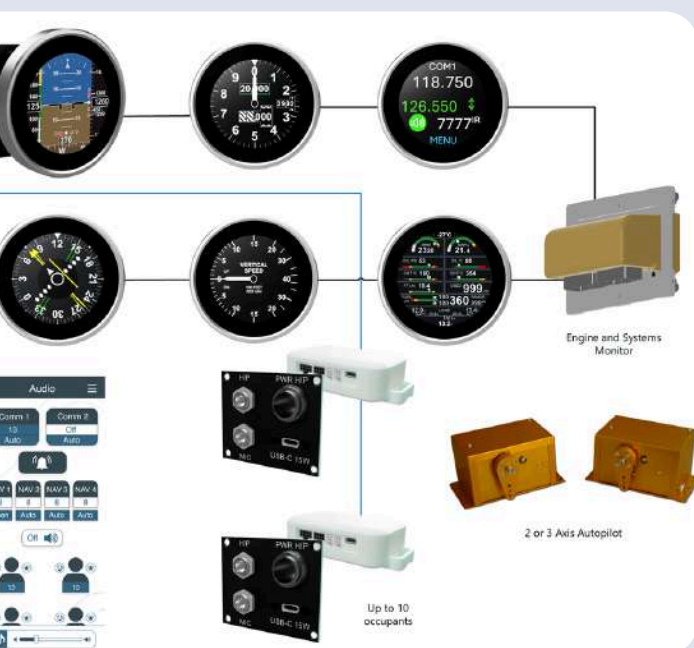
The classic "six-pack" layout features six primary flight instruments, delivering essential information and forming the foundation of instrument flying for pilots with basic VFR or IFR needs.



A panel that combines a classic "six-pack" with a clock, VHF radio, transponder, and a dedicated engine and systems interface. Delivering integrated communication, and real-time flight data for enhanced situational awareness. Engine performance, fuel levels, and electrical status are all provided to support safer, more efficient flight.







A traditional "six-pack", combined with a clock, VHF radio, and transponder, delivers all the core functionality required for flight in controlled airspace. Offering situational awareness, comms, and compliance in a compact, capable setup.



An advanced panel upgrade featuring 13 dedicated instrument displays, including a classic "six-pack" layout, VHF radio, transponder, engine and systems interface, and integrated autopilot- plus an iPad running your preferred EFB app for navigation and flight planning. With traffic displayed directly on the panel and real-time engine, fuel, and electrical data, it offers full flight awareness, and communication for modern, efficient operations.

# T3000 Autopilot



Microair Avionics has partnered with Trio Avionics to bring advanced, safety-enhancing autopilot capability to the T3000 skySuite system. This powerful integration connects the intuitive control of the Trio Pro Pilot Autopilot with the flexible, modular design of Microair's T3000skySuite system.

The result is a feature-rich cockpit solution. Pilots can now access precision autopilot modes including altitude hold, vertical speed and airspeed control, GPS navigation and approach, Auto 180, envelope protection, and more, all from within a seamless, integrated suite. This collaboration delivers enhanced situational awareness, workload reduction, and elevated performance in a lightweight and retrofit-friendly package.

## Safety features\_

### Auto 180

With a single press of either servo button, initiates a precise 180° course reversal and activates altitude hold, ideal for disorientation or unplanned course changes.

### Recover

Automatically returns the aircraft to level flight if it detects an unsafe or extreme attitude, offering immediate assistance in upset conditions.

### Automatic Servo Disconnect (Takeoff Protection)

Safeguards against inadvertent activation by disconnecting servos automatically during takeoff if left engaged.

### Track Offset

Enables flight parallel to the programmed GPS route, offering flexibility to avoid congested airways while remaining within navigation boundaries.

### Envelope Protection

Prevents the aircraft from exceeding safe airspeed limits by monitoring and limiting both minimum and maximum thresholds.

### Intelligent Servos

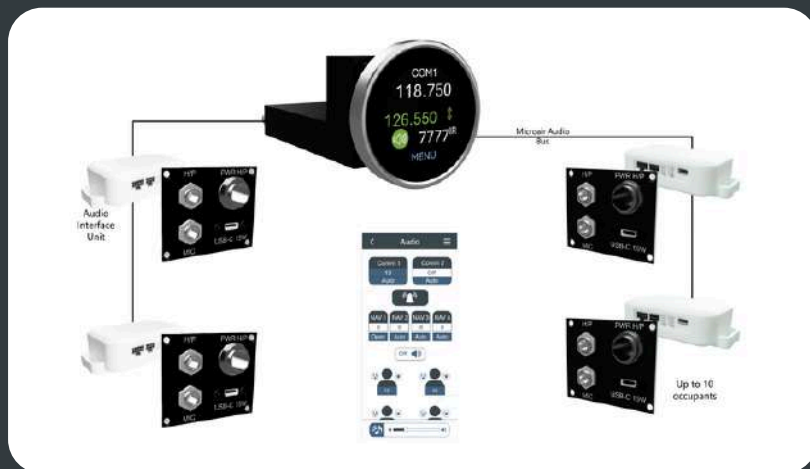
Built-in fault detection shuts down the system if invalid data or internal errors are detected—ensuring safe and reliable operation at all times.





# T3000

## Digital Intercom & Audio System



Experience unparalleled in-flight communication and entertainment with the T3000 skySuite Digital Intercom and Audio Interface System, designed to provide seamless audio connections between crew, passengers, and radio systems.

The T3000 Audio Interface System redefines in-flight audio with its groundbreaking individual control features. Passengers can personalize their audio settings, choosing their preferred entertainment, who they talk to and which radios they listen to while allowing pilots to override at any time. A call system ensures pilots are informed when isolated.

Whether it's streaming music or sharing audio content, the Digital Intercom and Audio System offers a bespoke audio experience that enhances comfort and satisfaction for every flight.

### Features:

- Crystal Clear Digital Audio: Enjoy superior sound quality for all communications and entertainment needs.
- Personalized Audio Control: Each passenger and crew member can tailor their own audio experience, while pilots retain the ability to override at any time.
- Bluetooth Connectivity: Effortlessly stream your favorite music or entertainment wirelessly. Share your entertainment audio with other passengers.
- Efficient USB-C Power (15W): Modern, fast-charging solution for all your devices.
- Versatile Connector Options: Compatible with GA, LEMO, and other industry-standard connectors for easy installation.
- Streamlined Audio Cabling: Reduces complexity, enhances reliability, reduces weight.

# T2000

## T2000SFL Transponder



## Overview\_

The T2000SFL is one of the world's smallest and lightest certified Mode 3A/C transponders, weighing just 600g. With over 5,000 units still in operation globally, it's a trusted solution for certified aircraft where space, weight, and efficiency are key.

Despite its size, the T2000SFL delivers low power consumption and advanced safety features typically found in larger, more costly systems. Certified to TSO C-74C, it integrates easily with any C88a-compliant altitude encoder, including the Microair EC2002.

**CERTIFIED**

## Technical Specifications\_

<b>TSO Approval RTCA Compliance</b>	C-74C DO-144 DO-160D DO-178B Level C
<b>Transmitter</b>	1090MHz +/-0.2MHz 200W Pulse Output 80nS Rise Time 120nS Fall Time
<b>Receiver (1030MHz)</b>	-7 to -71dBm Dynamic Range 1030MHz Centre Frequency +/-5MHz Pass band
<b>Input Power</b>	10-33Vdc 100-150mA @ 28V 150-200mA @ 14V
<b>Operational Modes</b>	Standby Mode 3A Mode 3A/C Mode 3A/C with Altitude Displayed
<b>Dimensions</b>	Length 169mm (6.65") Width 61mm (2.40") Height 61mm (2.40")
<b>Weight</b>	600g (21 oz)
<b>Features</b>	Encoder Altitude Display Option Altitude Alert Voltage Monitoring and Alert Switched Encoder Power Output Suppression In / Out Remote Standby Switch Option Remote Ident Switch Option Audio Beep Alert Tone

# RANGE

## Overview\_

The Microair ADSB-IN/OUT Transponder integrates Mode A and C, ADS-B Out, ADSB-In, GPS position source, and altitude encoder in one compact unit.

Designed for easy installation, the ADSB-IO Transponder enhances your situational awareness by both receiving transmissions from surrounding aircraft and making you visible to other aircraft. It streams traffic data to your preferred EFB App supporting GDL90 traffic, on an Android Tablet or iPad.

T2000ADSB-OUT version also available.

ADSB Upgrade options are available for T2000SFL Experimental & LSA customers.

### EXPERIMENTAL & LSA

## T2000ADSB-IO Transponder



## Technical Specifications\_

<b>TSO Equivalence</b>	C74c Class 1a C88a (to 30,000 feet) C166b Class A0 (with B1S power output) Environmental DO-160G Software DO-178C DAL-C
<b>Mounting</b>	Panel mount 2 1/4" (57mm) round
<b>Temperature</b>	-20 to +55 Celsius
<b>Altitude</b>	55,000 feet, inbuilt encoder to 30,000 feet
<b>Cooling</b>	Not required
<b>Power Input</b>	10 to 33 volts DC negative chassis ground, 7W peak
<b>RF Output</b>	200 watts (nominal peak power)
<b>SWR Tolerance</b>	<5:1 or open feed line
<b>Control/Backlight</b>	LCD with rotary selector for setting Mode A code, Flight ID and settings. Push buttons for easy access to common features such as Ident and VFR
<b>Dimensions</b>	61 mm wide x 61 mm high x 160 mm deep (2.4" wide x 2.4" high x 6.3" deep)
<b>Weight</b>	600 grams (2.1 oz)
<b>Connections</b>	DB25 for power, Gillham code, serial, discrete inputs. Interchangeable with T2000SLF transponder and T2000ADSB without wiring changes. BNC – transponder antenna TNC – GPS antenna 1/8" NPT - static
<b>Options</b>	Wiring harness available

# M760 Transceiver



## Overview\_

One of the smallest panel-mounted VHF aircraft radios in the world, the M760 is packed with features.

Built on decades of dependable service, the M760 continues to set the benchmark for reliability and performance in VHF communications and is certified under an Australian PMA with formal recognition by FAA and EASA member states.

**CERTIFIED**

## Technical Specifications\_

Radio: Channels (Transmit)	760 channels, 25KHz spacing 118.000 – 136.975MHz
Channels (Receive)	1160 channels, 25KHz spacing 108.000 – 136.975MHz
Frequency Selection	Concentric dials for MHz and kHz
Frequency Display	2 line alpha/numeric LCD display (with back-lighting)
Memories	99 programmable memories
Dual Motor	100ms Scan Time
Power Consumption	Receive (no signal, no backlight) 140 mA Transmit 1.9 A
Input Voltage	10.7 – 16.0 Volts
Power Output	5 watts (nominal)
VSWR Tolerance	< 2:1 for best operation (5:1 without damage)
Receiver Sensitivity	-12dB SINAD @ 0.3uV (1KHz audio with 70% modulation)
Receiver Selectivity	70dBm
Squelch Range	0.5 - 10.0uV
Data Interface	RS232
Speaker Volume Output	Nominal 4 watts output to 4 ohms
Headset Volume Output	100mW into 150 Ohms (maximum audio output) 60mW into 300 Ohms 30mW into 600 Ohms
Auxiliary Audio Input	Line-level audio
Temperature Range	From -20 to +55 degrees Celsius
Dimensions	65mm wide x 59mm high x 135mm deep (2.6" wide x 2.3" high x 5.3" deep)
Exposed Dial Face	57mm diameter 2 1/4" diameter
Weight	416 grams (14. oz)





# Accessories

## Harnesses\_

We offer a range of pre-configured and custom harnesses to support our full product line. Harnesses can be tailored to suit your specific installation needs, including custom lengths and connector configurations, making integration fast, streamlined, and reliable.



M760 Wiring Harnesses



T2000 Wiring Harnesses



Coax Cable Assemblies



T3000 Harness

## Other accesories\_

In addition to our flexible harness options, we offer a range of accessories to complement and support your Microair product purchase. This includes antennas, adaptors, noise suppression filters, audio amplifiers, and speakers - providing everything you need for a streamlined, reliable, and professional installation.



GPS Antennas



VHF Antennas



Transponder Antennas



Pre-Amplifiers



Adapters



Speakers



# Notes\_

