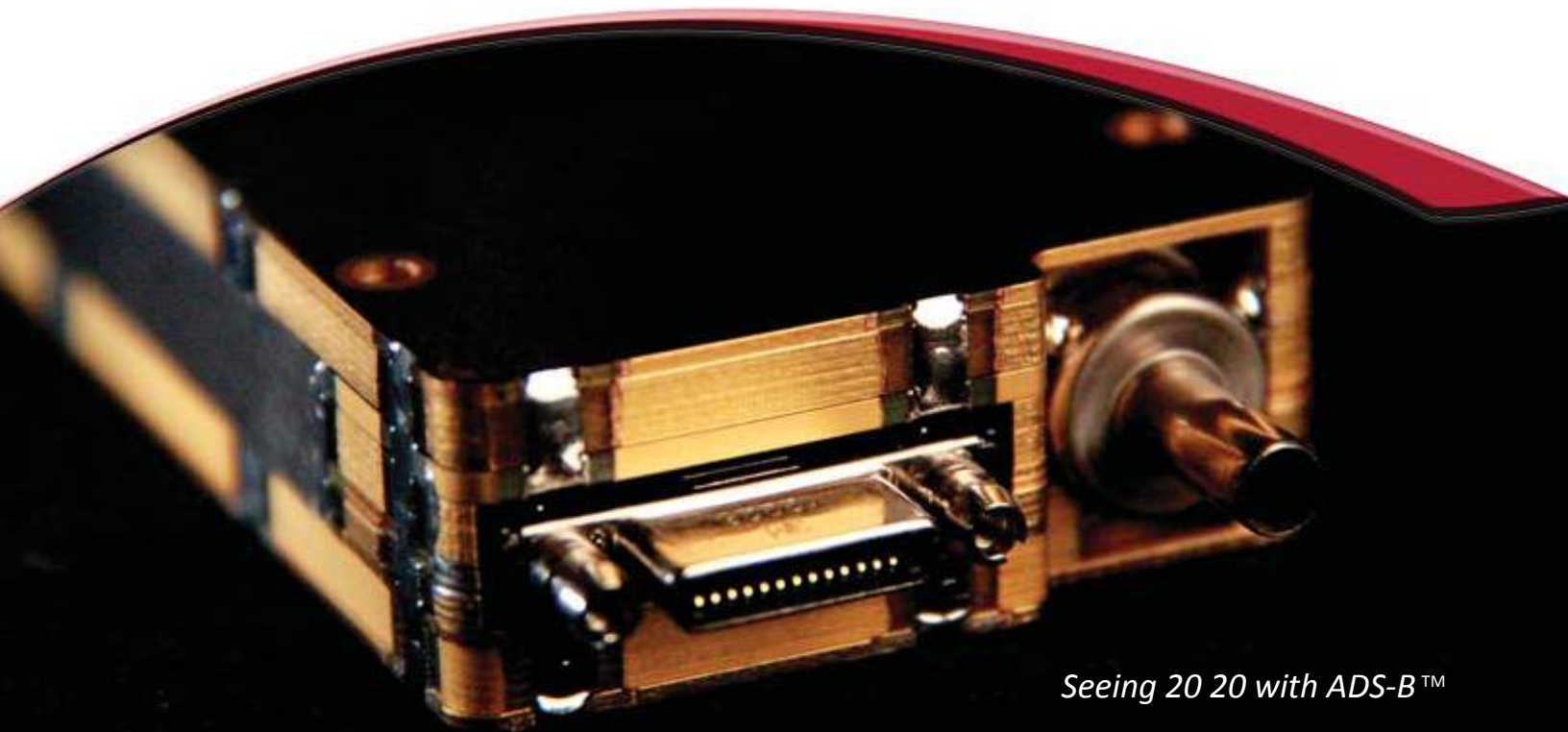


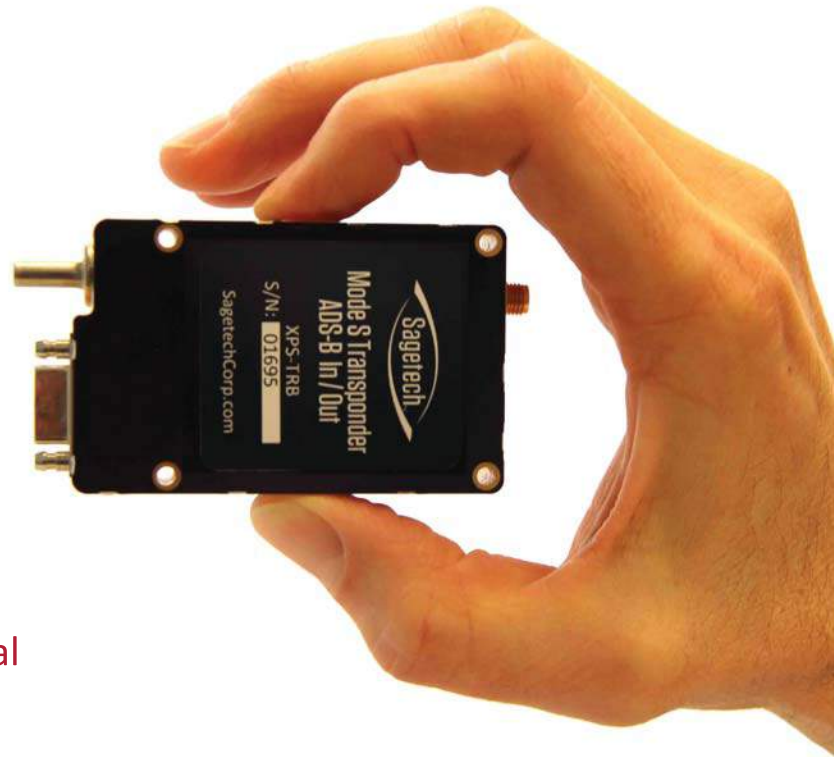


XP Family of Transponders

Product Brochure



Seeing 20 20 with ADS-B™



The World's Smallest Transponder

Where size, weight and power are critical

Features

- **World's smallest size and weight** Sagotech transponders measure just 3.5" x 1.8" x 0.7" and weigh only 100 grams
- **Lowest power consumption** Our transponders are a must for power conscious applications
- **Integrated pressure sensor and altitude encoder** Compliant up to 60,000 feet. The flight computer can access data provided by the transponder
- **Simple integration** Due to its small size and light weight, the XP Family of Transponders minimizes integration complexity
- **3 versions**

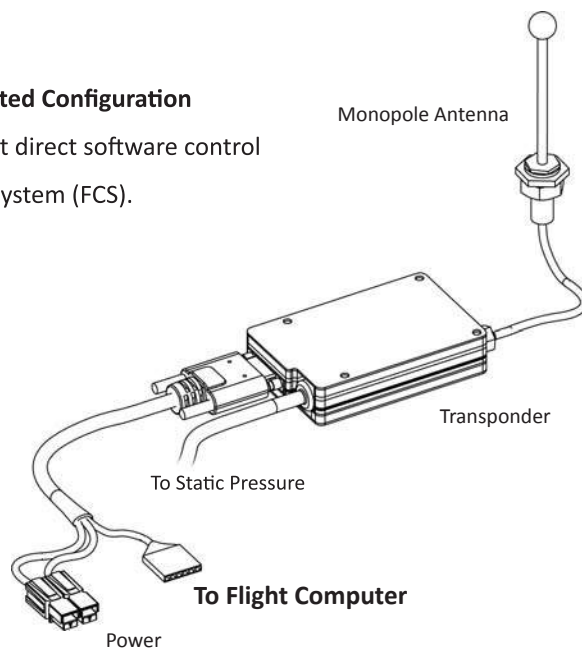
Mode C Transponder – Small, highly reliable solution for Mode A and Mode C requirements (Mark XA AIMS certified version is also available)

Mode S Transponder with ADS-B Out – Meet the 2020 ADS-B requirements today

XPG-TR Mode S Transponder with ADS-B Out and GPS – Include your GPS location in Mode S communications

Multi-Function Display / Flight Control System Integrated Configuration

To minimize the system footprint, transponders support direct software control from a Multi-Function Display (MFD) or Flight Control System (FCS).



	XPC-TR Mode C Transponder	XPS-TR Mode S Transponder with ADS-B Out	XPG-TR Mode S Transponder with ADS-B Out & GPS
Serial Communications / General	Operating Altitude	unrestricted	unrestricted
	Cruising Speed	unrestricted	unrestricted
	Transmit Power	250 W nominal	250 W nominal
	1030 Receive Sensitivity	-73+/-4 dBm	-74 +/- -3 dBm
	1090 ADS-B IN Sensitivity	N/A	N/A
	RF Impedance	50Ω	50Ω
	Serial Comms		
	Com0 Control	Proprietary protocol RS-232 57.6k	Proprietary protocol RS-232 57.6k
	Com2 GPS Input	N/A	Accord NexNav, NMEA RS-232, Adjustable data rate
	Mutual Suppression	Yes	Yes
	Pressure Altitude Calibration	50,000 ft <small>(also available in 20,000 and 60,000 ft.)</small>	50,000 ft <small>(also available in 20,000 and 60,000 ft.)</small>
ADS-B Out (Extended Squitter)	No	Yes	
Export Compliance	ECCN 7A994	ECCN 7A994	
Power	Supply Voltage	10-32v	10-32v
	Power Consumption (ON & ALT)	4 watts (typical) 11 watts (max)	8 watts (typical) 14 watts (max)
	Power Consumption (STBY)	< 1 watt	< 1 watt
	Transponder Performance Standard	RTCA DO-144A	RTCA DO-181E
Level	-	2els	
Class	A	1	
Design Objectives	ADS-B Performance Standard	-	RTCA DO-260B
	Class	-	BO
	Pressure Altitude Standards	SAE AS392c SAE AS8003	SAE AS392c SAE AS8003
	FCC	Part 87 and 115	Part 87 and 115
Certifications in Progress (Design Assurance Level C)		TSO-C112d (Mode S) TSO-C166b (ADS-B) TSO-C10b (Pressure Sensor) TSO-C88b (Alt. Encoder)	TSO-C112d (Mode S) TSO-C166b (ADS-B) TSO-C10b (Pressure Sensor) TSO-C88b (Alt. Encoder)
Physical / Environmental	Dimensions	89 x 46 x 18 mm (3.5 x 1.8 x 0.7 in)	89 x 46 x 18 mm (3.5 x 1.8 x 0.7 in)
	Mass	100 g (3.53 oz)	100 g (3.53 oz)
	Operating Temperature	-20 to 70 °C (-4 to 158 °F)	-20 to 70 °C (-4 to 158 °F)
	Storage Temperature	-55 to 85 °C (-67 to 185 °F)	-55 to 85 °C (-67 to 185 °F)
	Humidity	Max: 95% non-condensing	Max: 95% non-condensing



About Sagetech Corporation

Sagetech Corporation has been a disruptive innovator in miniature avionics since 1998. Its tiny aviation transponders transformed how small unmanned aircraft are employed by making them visible to ATC radar. Sagetech's Clarity ADS-B receivers provide unprecedented integrated functionality for general aviation. Sagetech operates out of three facilities in Hood River, Oregon and White Salmon, Washington.

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XP Family of Transponders Product Brochure v008

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