



Overview

PING-200S is a complete system designed to meet the conspicuity requirements for operating UAS in controlled airspace. This system includes an integrates a precision, temperature controlled, barometric sensor with accuracy beyond 80,000ft.



Features

- Mode S transponder.
- ADS-B 1090ES DF17 transmitter.
- Integrated static pressure sensor.
- Meets the performance requirements of TSO-C166b Class B1S and TSO-C199 Class A.
- Meets the ADS-B Out equipment performance requirements of 14 CFR 91.227.
- Meets the minimum performance requirements of the following RTCA specifications:

DO-181E Level 2els, Class 1 DO-260B Class B1S

- Temperature controlled static pressure sensor accurate to 80,000ft.
- DO-160G environmental Cat B2.
- GDL90 compatible CONTROL serial input. Compatible with popular autopilots.
- GDL90 ownship and altitude packets.
- SMA 1030/1090MHz Antenna Connector.
- Integrated GPS antenna.
- US Patents Pending.

Regulatory

 FAA transmit license - manned aircraft and unmanned aircraft operating above 500ft AGL.
FCC 47CFR part 87 ID=2AFFTP200S

Technical Specifications

Input Power 1 2	alue 1-33V			
2'				
	\A\ A\ \a\ \a\ \a\ \a\ \a\ \a\ \a\ \a\ \			
	W Ave On/Alt.			
<	1W Standby			
Size 9	1x57x17mm			
Weight 7	3 grams			
Operating Temp2	45 to 80°C			
Transponder				
MTL 1030MHz -7	74±3 dBm			
1090 Transmit 2	50W Nominal			
Power				
Alti	meter			
Range -1	1000 to 80,000ft			
Fitting 3	mm FESTO			
Interfaces				
Control				
Control 5	7600bps GDL 90			
Ownship 5	7600bps GDL90			
Programming				
Programming 1	15200bps GDL 90			
Options				
Wi-Fi Programmer Adapter				
1030/1090MHz Transponder Antenna				





Electrical Specification

Host Interface

Pin	Туре	Physical	Protocol
1	Ground		
2	NC	No Connection	
3	Aircraft Power	11-33V	
4	COM1 TX	RS232 57600bps	GDL 90 Ownship
5	COM1 RX	RS232 57600bps	GDL 90 Control
6	RS232 Ground		

Mating Connector: Molex 0436450600, Pins: 0462350001

Programming Interface

Pin	Type	Physical	Protocol
1	COM2 TX	3.3V Serial 115200bps	GDL 90
2	COM2 RX	3.3V Serial 115200bps	GDL 90
3	Power	5V Out	
4	Ground		

Mating Connector: JST ZHR-4, Pins: SZH-002T-P0.5

Indicators

LED	ON	FLASHING
GREEN	Powered	Receiving
		Interrogation
RED	FAULT	Reply / Transmit

Mechanical Specification

