

# AIR DATA UNIT - ADU

## HIGH PERFORMANCE PRESSURE MEASUREMENT FOR MILITARY APPLICATIONS

- **VERY HIGH ACCURACY**
- **LONG TERM STABILITY**
- **TEMPERATURE RANGE -40°C TO 71°C**
- **PREDICTED MTBF ABOVE 20,000HRS**
- **PUBIT AND CBIT**



Astronautics' high end Air Data Unit is an advanced solution for modern airborne platforms (Including UAV's)

### Main Features:

- ◆ Six (6) Pressure Inputs. (Option to reduce to afford availability)
- ◆ Pressure input operating range between 0mb to 1224mb
- ◆ Absolute accuracy: better than  $\pm 0.16$  mbar (3sigma)
- ◆ Angle of Attack (AOA) as potentiometer analog inputs
- ◆ Angle of Slip (AOS) as potentiometer analog inputs
- ◆ Six (6) Thermistor inputs for Aircraft temperature reading
- ◆ Discrete Inputs

Astronautics' ADU is a unique Air Data device with six (6) pressure transducers, allowing the measurement of air flow over various surfaces, as basic data for aerodynamic computations required.

The six pressure inputs ADU provides accurate and stable pressure reading over the entire operating temperature range.

The ADU sensors are calibrated at Astronautics, with no need for re-calibration.

The ADU provides long term stability, maintaining stable and accurate reading over time, freeing the user from the frequent need to calibrate the sensors.

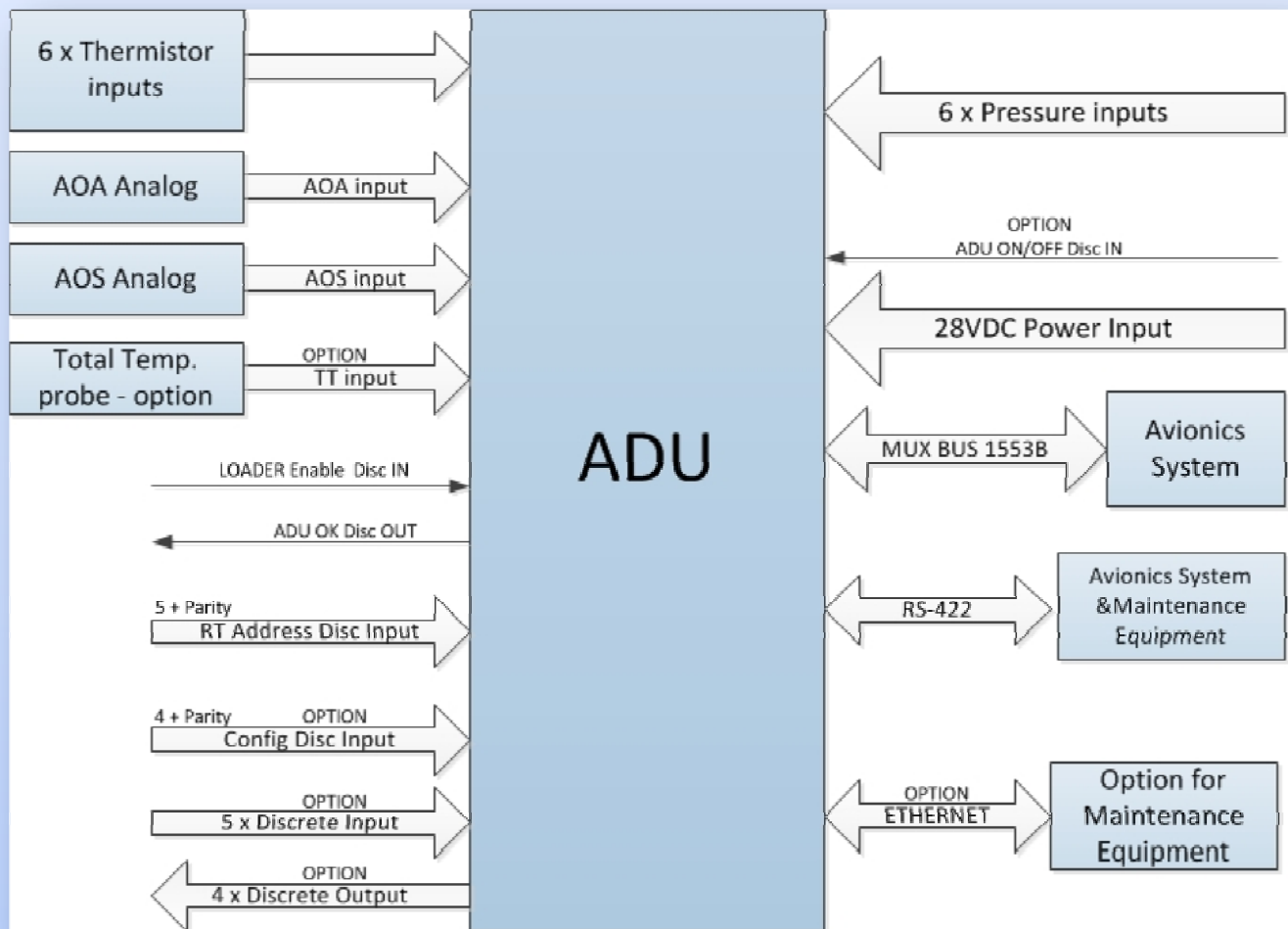


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## ACCURACY AND LONG TERM STABILITY



### ADU Communication

MUX-Bus 1553B dual channels

RS422

Field loadable software update via maintenance port (RS422)

### ADU Power

28VDC per MIL-STD-704A, Category B

### Mechanical

**Dimensions** 100mm x 160mm x 85mm

**Weight** 1.5Kg

**Mounting** Captive Screw

**Cooling** Convection



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