

# LX AIR DAT

Electronic based IAS, Altimeter and Variometer

## 1 General description

The system consists of one small **electronic box** which has two **pressure inlets** and three 57 mm indicators as displays. Every indicator has a sunshine readable graphic **display** and a needle which is driven by **stepper motor**. That means no pneumatic connections on indicators. All three indicators are connected to a bus and this makes installation extremely easy. Altitude offset setting is done by **rotary switch** and after the switch has been rotated altitude change happens.



## 2 Electronic box

Electronic main parts are two digital pressure transducers one for altitude and the second d one for airspeed. Both are calibrated and also temperature compensated which ensures safe and accurate operation from -20 until +65 deg. Celsius. Additionally to two pressure inlets there are also four connectors on the box.

-9P Sub D connector for power and connection of indicators

-6P telephone type connector for rotary switch connection-8P and USB mini are used during production process



### 3 57 mm indicators

#### 3.1 Altimeter

Display functions:

- Flight level indication
- QNH indicator
- Altitude in ft

Adjustment of altitude respectively QNH is done by rotaty switch.



#### 3.2 IAS indicator

The unit displays IAS in three different forms:

- AIS needle indicator with colour arcs
- IAS in km/h and kts on the display
- vario indicator as a dot



#### 3.3 Vario indicator

The needle shows climb/sink rate. The scale is calibrated up to +- 10 m/s. Colour display is for display of Time and Flight time.

