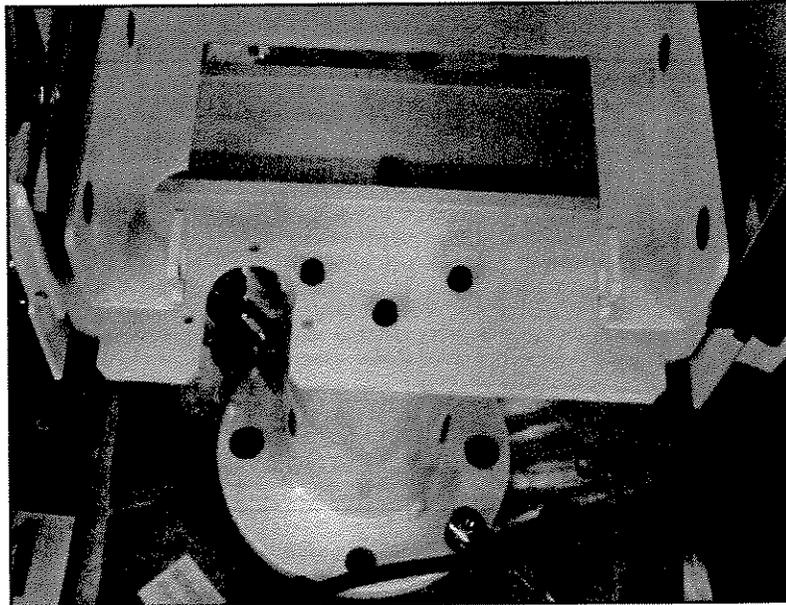


## 5. Design improvements initiated by the EQT

### 5.1. Pedestal modification

The pedestal designed for CL31ASOS ceilometer preproduction units passed the EQT. However, certain concern on its robustness in field use was raised. The pedestal is made far more robust by implementing following improvements:

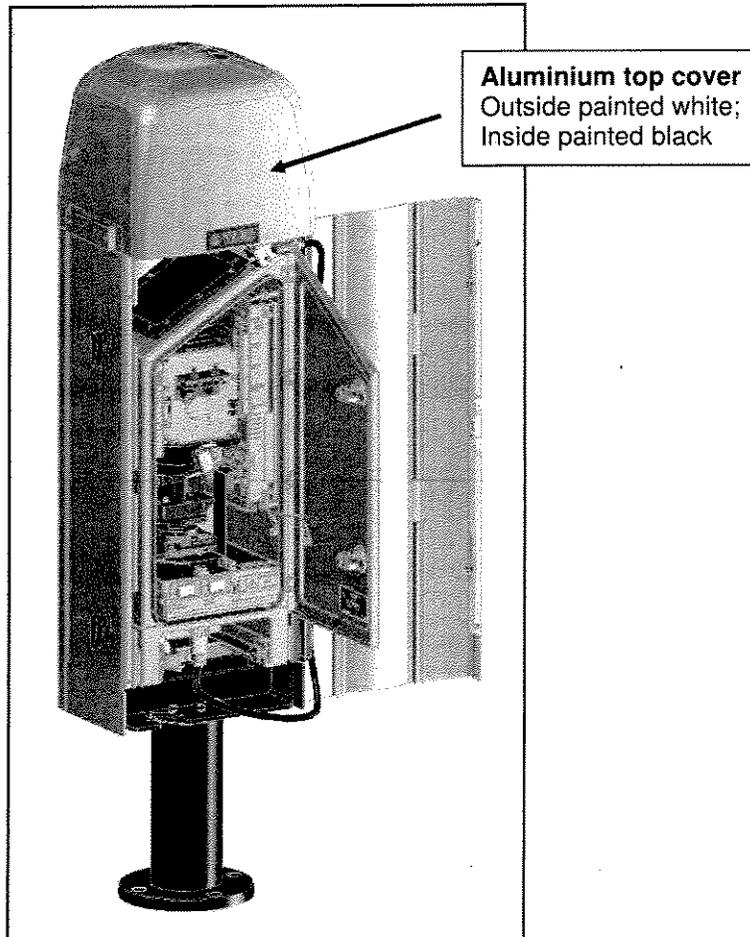
- Support ribs are added,
- Thickness of fork plate is increased, and
- Welded joints are replaced by screw fastenings



**Modified pedestal**

### 5.3. Top cover material changed

Ceilometer top cover material is changed from plastic to painted aluminium. New design top cover with added ferrite toroid on the receiver coaxial cable provides excellent EMI tolerance.

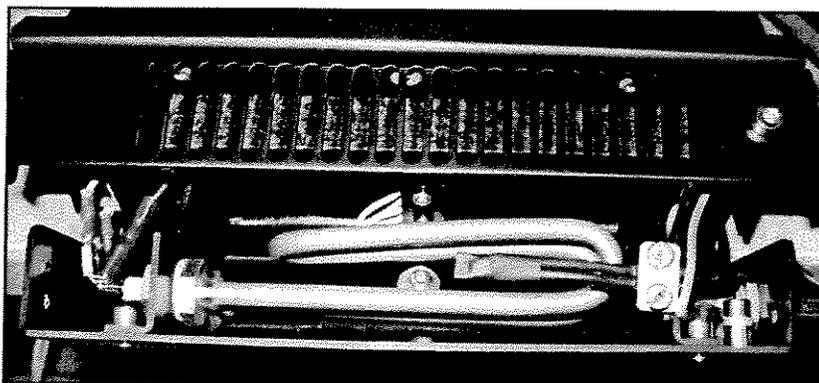


CL31ASOS

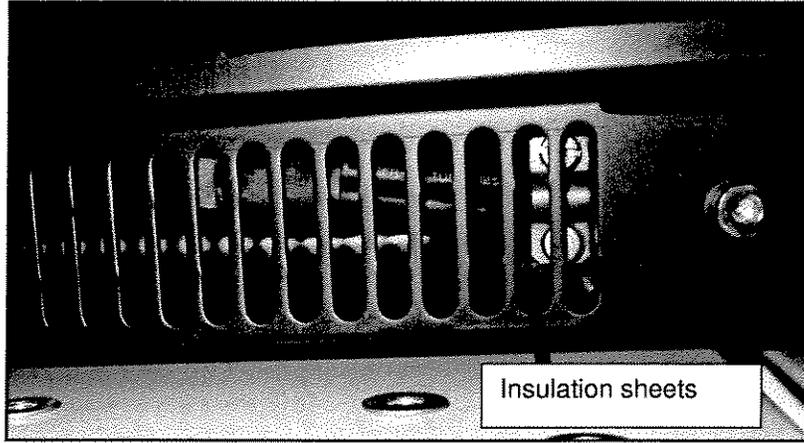
#### 6.4. Improved thermistor insulation in Window Blower CLB311-115

Thermistor mounting and its insulation in the window blower was a concern in both COTS ceilometer and CL31ASOS preproduction ceilometers.

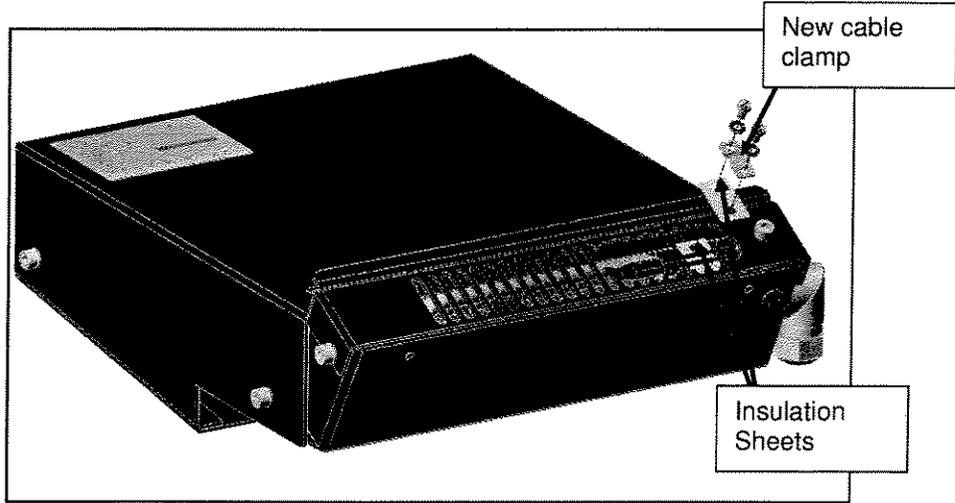
A small clamp retaining the thermistor at its place from its wires was redesigned. The improved clamp has a bend in the middle. Also, small insulator sheets were added on the both sides of the thermistor wire. All these were done in order to fasten the thermistor without a risk of accidentally peeling or puncturing the thermistor wire skin and consequently short-circuiting the thermistor, furthermore disabling the outside heater.



Old design of the thermistor mounting in the blower; with cover grating opened



**Improved arrangement in blower design**



**Exploded view of changes in blower unit**

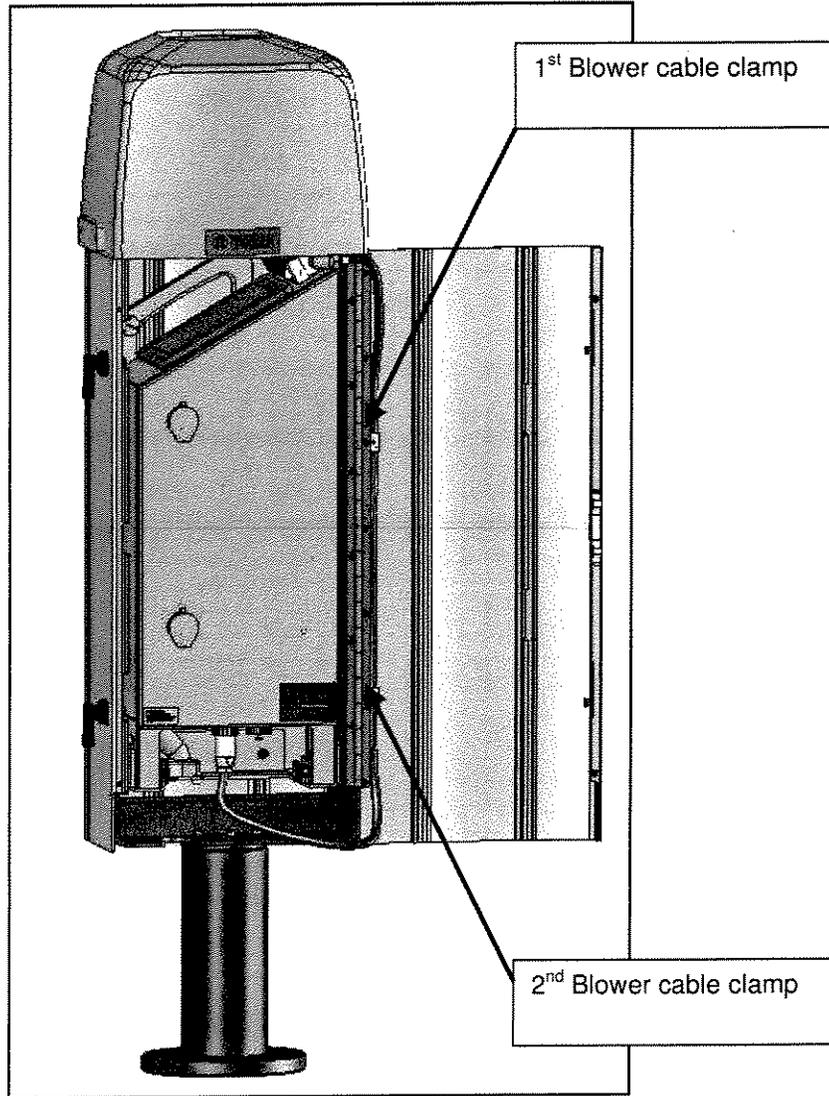
## 6.2. Conduit adapter modification

Conduit adapter moulding is modified to include a groove for its upper gasket. As a result of this improvement the used-to-be gap between bottom of enclosure and collar of conduit adapter is no more there.



**6.5. Window Blower CLB311-115 cable clamp**

Another cable holder/clamp is added to the inner surface of the radiation shield door.



**Blower Cable clamps**

## 6. Design improvements initiated by experience of product's developers

### 6.1. Receiver ribbon cable connector changed

Because of the old ribbon cable connector will be obsolete year 2008; a new type connector is taken into use in CLR321 Receiver.



New ribbon cable connector at the ceilometer receiver