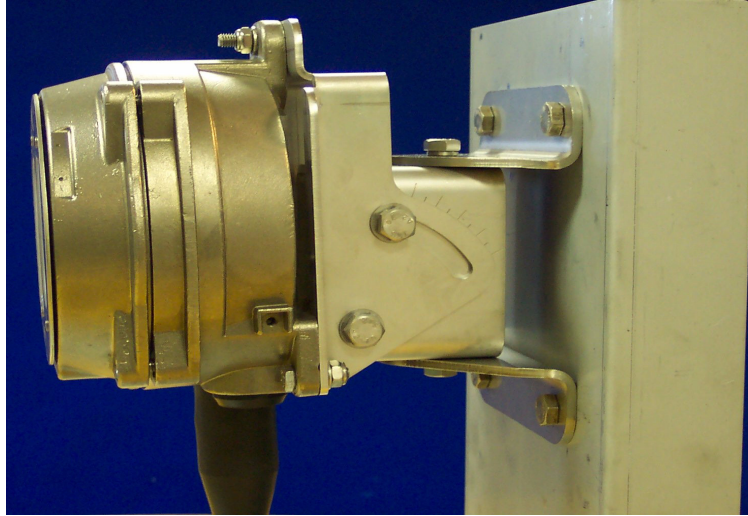
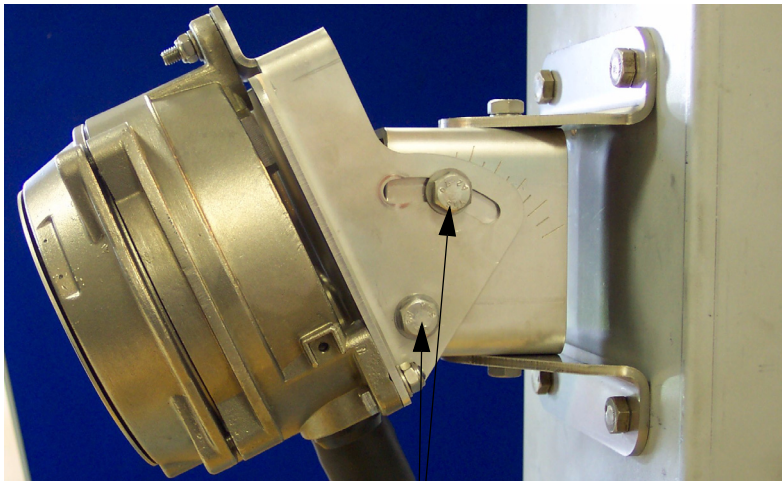


## FV300 MOUNTING BRACKET INSTALLATION LEAFLET 120-415-594 ISSUE 2

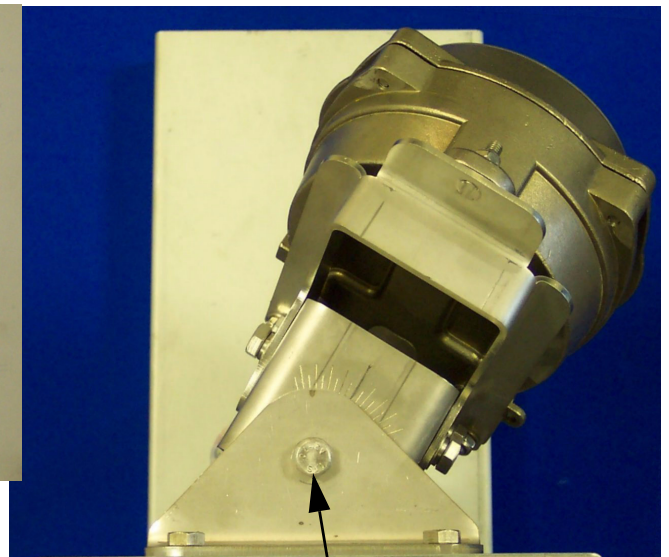
The bracket provides a secure mounting for the FV300 flame detector onto flat surfaces. It can be secured to a suitable structure using bolts or by welding.



The bracket allows the angle of the detector to be easily adjusted in both the vertical and horizontal swivel directions to set the field of view. The angles are marked in 5° steps. The bracket is made from S316 stainless steel. The bracket should be fixed to a strong, stable structure. The surface chosen should be flat over the area of the bracket to ensure a stable fixing.



Two bolts either side for adjusting vertical angular position



One bolt top and bottom for adjusting horizontal swivel angular position

Please use the following instructions to mount the bracket to ensure good contact over all mating surfaces. This will prevent the detector moving over time due to vibrations. In this respect, it is preferable that the bracket is secured to the mounting surface using bolts rather than by welding.

### **Fitting the bracket:**

- Using the bracket as a template, drill top two mounting holes for M8 bolts.
- Slacken off the bracket horizontal swivel bolts (if tight) then mount the bracket at the two drilled holes. Tighten the two mounting bolts and swivel bolts, making sure that the bottom of the bracket is flat against the mounting surface.
- Mark and drill the bottom two mounting holes for M8 bolts.
- Fit the bottom mounting bolts. Take up the slack but do not tighten. Slightly slacken the top mounting bolts so that the bracket does not lift away from the wall/structure.

### **Fitting and adjusting the detector:**

- Fit the detector onto the bracket stud (top) and secure with a washer and nut. Then fit bolts, washers and nuts through the other two detector fixing positions (bottom).
- If a hood is required then fit this now. This slides down from above, sandwiched between the detector and the bracket.
- Tighten the top detector fixing nut. On the bottom fixings, take up the slack but do not tighten.
- Adjust the detector vertical angle to the required setting using the two bolts each side (support the detector when the four vertical bolts are loose). Tighten these four bolts after adjustment.
- Tighten the bottom two detector mounting bolts.
- Adjust the detector horizontal swivel angle to the required setting then tighten the top and bottom swivel bolts.
- Finally, tighten the four wall bolts.

### **Post-installation adjustments**

- For minor adjustments (few degrees): Slacken off the swivel bolts and/or the vertical bolts as required, make the adjustment and re-tighten. It is not necessary to slacken off any of the other bolts as well.
- For larger adjustments: Slacken the four wall bolts and the two lower bolts on the detector and then follow the same bolt tightening sequence as for fitting and adjusting the detector described above.

### **Weather hood fitting and removal**

- The weather hood can be fitted or removed without having to completely remove the detector from the bracket. Loosen the three detector mountings then slide in or remove the hood from above and tighten the fixings. A small adjustment may then be necessary to the detector direction - follow the procedure above for minor adjustments.