

SF₆ Moisture Measurement

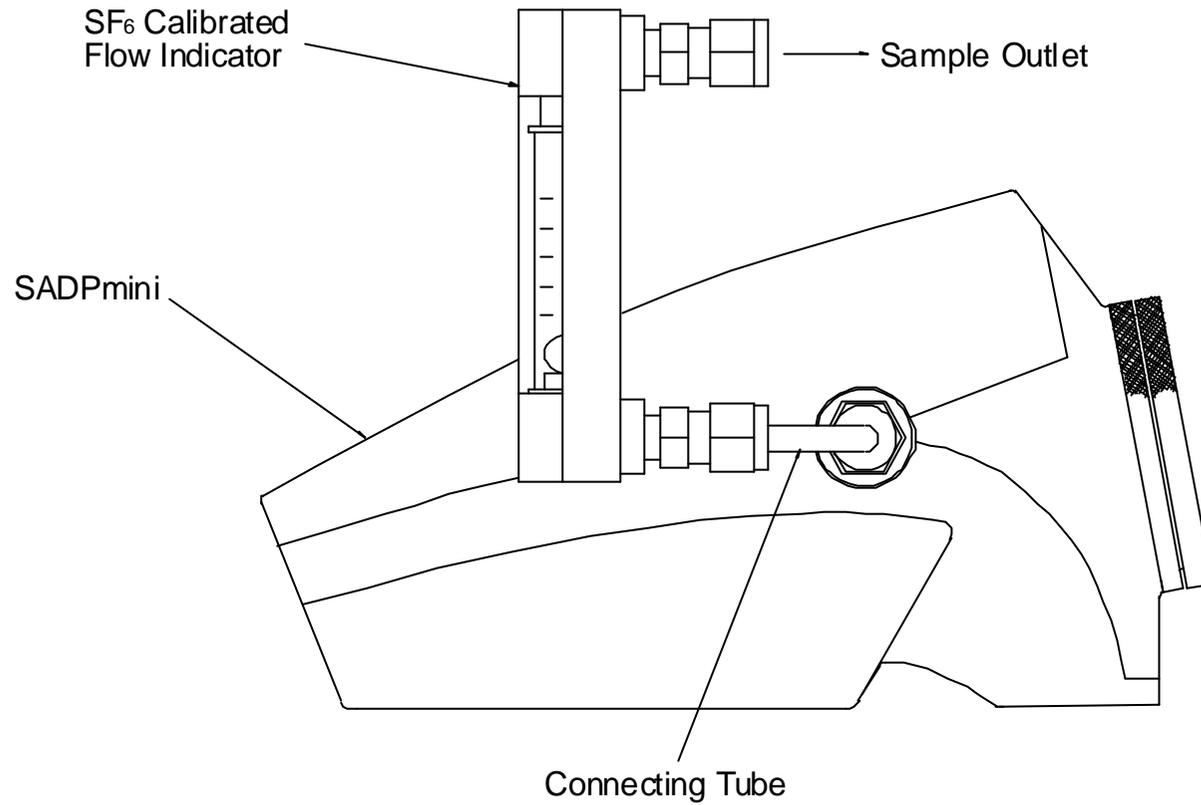
Refer to drawing 1568 and pictures 100 1824 & 100 1830

NOTE. Drawing 1568 and photograph 100 1830 show the sample flow indicator mounted on the right hand side of the SADPmini but, by loosening the connection of the connecting tube to the flow indicator and turning the connecting tube through 180°, before retightening it, the flow indicator can be fitted to the left hand side of the instrument. All other sections of this procedure are valid in either case.

Measurement procedure

1. Connect the sample flow indicator to the SADPmini, using the ¼” connecting tube and Swagelok fittings provided.
2. Place the instrument in the position in which it is to be used and adjust the sample flow indicator mounting until the flow tube is as close the vertical as possible.
3. Connect the instrument to the SF₆ sample point, using 1/8” or 3mm OD, stainless steel, sample tube to minimise swept volume and gas usage.
4. Slowly, open the sample flow control valve, at the sample point, until the sample flow indicator shows, between 0.8 and 0.9 l/min SF₆ and allow the system to purge for approximately 3 minutes.
5. Restrict the outlet flow, by placing a finger over the outlet of the sample flow indicator and allow the sample chamber to extend under the sample gas pressure.
Note. If there is insufficient pressure to extend the sample chamber, assist the action manually by gripping the knurled section of the sample chamber and, while gently turning it clockwise, pull it open.
6. Reduce the sample flow to, between, 0.4 and 0.5 l/min SF₆ and allow the instrument reading to stabilise. This should take 2 to 3 minutes.
8. When the reading is complete, close the sample chamber, manually, by pushing it back into the instrument and close the sample flow control valve.
9. Disconnect the instrument from the sample point.
10. This completes the procedure.

Not Controlled if Printed



TITLE SADPmini and SF₆ Flow Indicator

Issue 1

Associated Engineering Change Notes

Material

DRAWING No.

1568

ASSOCIATED DRAWINGS

Auth DLC

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100 1824



100 1830

