CLAIMS

1. A device for reducing liquid ingress into a tube, the device comprising:

a coupling portion adapted to couple the device to the tube,

a guiding channel portion comprising a tubular portion and adapted to receive gas and liquid moving relatively towards an inlet of the device, and

a plurality of diverting channel portions circumferentially distributed around a sidewall of the tubular portion and adapted to divert the liquid away from an inlet of the tube,

the diverting channels portion being in fluid communication with the guiding channel portion,

wherein the guiding channel portion is configured in use to guide the gas into the inlet of the tube, but guide the liquid into ~~an~~ respective inlets of the diverting channel portions.

2. The device of claim 1, wherein a size of ~~the~~ an inlet of the diverting channel portions is greater than a size of the inlet of the tube.

3. The device of claim 1 or 2, wherein a distance between the inlet of the device and ~~the~~an inlet of the diverting channel portions is set in dependence on a pre-determined speed at which the device moves relatively towards the gas and liquid.

~~4. The device of any preceding claim, wherein the guiding channel portion comprises a tubular portion.~~

~~5~~4. The device of ~~claim 4~~any one of the preceding claims, wherein the inlet of the device comprises an inlet of the tubular portion.

~~6~~5. The device of claim ~~4 or 5~~, wherein the coupling portion comprises an outlet portion of the tubular portion, the outlet portion being adapted to receive a portion of the tube.

~~7~~6. The device of any one of the preceding claims ~~4 to 6~~, wherein each of the diverting channel portions comprises a bore through ~~a~~ the sidewall of the tubular portion.

~~8~~7. The device of claim ~~7 6~~ when dependent on claim ~~5~~4, wherein the bore is positioned in an inlet end portion of the tubular portion.

~~9~~8. The device of claim ~~7 or 8~~6 or 7, wherein a longitudinal axis of the bore is at an angle of 7° to 35° to a longitudinal axis of the tubular portion.

~~10. The device of claim 9, comprising a plurality of diverting channel portions circumferentially distributed around the sidewall of the tubular portion.~~

~~11~~9. The device of any one of the preceding claims ~~10~~, wherein the plurality comprises an odd number of diverting channel portions.

~~12~~10. The device of any one of the preceding claims ~~10 or 11~~, wherein a diverting channel portion is present at a lowest portion of the tubular portion.

~~13~~11. The device of any one of the preceding claims ~~10 to 12~~, wherein the sidewall of the tubular portion is continuous at a highest portion of the tubular portion.

~~14~~12. The device of any preceding claim, wherein the inlet of the device comprises a chamfered leading edge to promote separation of gas and/or liquid at the inlet of the device.

~~15~~13. The device of any preceding claim, wherein the device is made of a thermally insulating material.

~~16~~14. The device of any preceding claim, wherein the device is made of a non-absorbent material and/or a material having a low surface energy.

~~17~~15. An assembly comprising:
a tube having an inlet in fluid communication with an internal bore, and
a device for reducing liquid ingress into the tube as claimed in any preceding claim.

~~18~~16. The assembly of claim ~~17~~ 15 further comprising a connector for connecting the internal bore of the tube to a pressure measuring device.

~~19~~17. The assembly of claim ~~17~~ 15 or ~~18~~16, wherein an external surface of an inlet portion of the tube comprises a tapered portion, wherein the taper diverges in a direction from the inlet of the tube.

~~20~~18. The assembly of any one of claims ~~17~~ 15 to ~~19~~17, wherein the internal bore at an inlet portion of the tube comprises a tapered portion, wherein the taper converges in a direction from the inlet of the tube.

~~21~~19. The assembly of any one of claims ~~17~~ 15 to ~~20~~18, wherein the inlet of the tube comprises a rounded inner leading edge to promote a consistent stream of gas to enter the internal bore of the tube.

~~22~~20. The assembly of anyone of claims ~~17~~ 15 to ~~21~~19, wherein the device is configured to receive a portion of the tube to couple the device to the tube.

~~23~~21. The assembly of anyone of claim ~~22~~20, wherein an internal surface portion of the device is adapted to couple to an external surface portion of the tube via an interface fit, and wherein a contact point of the interface fit is located adjacent the respective inlets of the ~~or each~~ diverting channel portions.

~~24~~22. The assembly of claim ~~23~~21, wherein the device is configured to receive the portion of the tube to locate the inlet of the tube adjacent to the respective inlets of the ~~or each~~ diverting channel portions of the device.

~~25~~23. The assembly of any one of claims ~~17~~ 15 to ~~24~~22, wherein the tube is a pitot tube.

~~26~~24. The assembly of any one of claim ~~17~~ 15 to ~~25~~23, wherein the tube further comprises a mounting portion for mounting the assembly to a vehicle.

~~27~~25. The assembly of claim ~~26~~24, wherein the vehicle is an unmanned aerial vehicle.