GasVac® Sample Systems

SAMPLE AND TEST GAS LINE INSTALLATION

Technical Sheet ref C1892B v4
Doc. Ref. 233D12C

Sampling Systems

For sequential and single line sample systems where the sensor unit is located at the control/monitoring device, it is a requirement that the sensor be calibrated and periodically the integrity of the sample lines be confirmed.

GAS TESTING

It is expected that the sensor be gas checked at the controller by allowing test gas to be drawn directly from a gas bag until a maximum gas value read-out is obtained. Alternatively, where an adjustable high rate test gas supply is available, this can be applied directly as for fixed sensors, or by the use of an excess blow off tee union. Both methods will allow the pump to operate without restriction. Where low flow rate pumps are used (less than 1 litre/min), the sensor may be gas tested directly using the cylinder/regulator supplied with the GDS Test Gas Kit.

SAMPLE LINE INTEGRITY TEST

Sample systems are deployed generally in situations where it is not practical to use wired sensors for a variety of reasons; one of which is inaccessibility to the target area, in such situations where it is not possible to apply test gas to the sample intake point, a thorough inspection of the sample line should be made.

GDS Sample Systems are designed to monitor for sample line blockages but are not able to detect any change in the porosity of the line. In some cases, it may be prudent to incorporate a test gas injection/flowrate test point at the most extreme accessible position in the line.

Sample lines may be checked by recording each line flow rate at the control monitoring device followed by a flow rate check at the end of each line, both line readings should be identical.

Alternatively a GDS PorGauge® (porosity gauge) attached to one end of the sample line while blocking the opposite end will indicate the smallest of leaks.

For Micropore sampling networks, where sample intake modules are arranged in zones or groups and at varying heights depending upon the density of the target gas, the main sample draw line to each module group should be tested as described above with close inspection being carried out of individual intake modules.

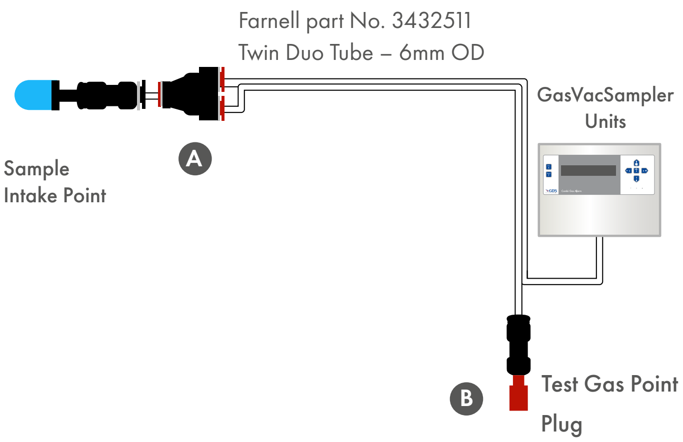

FIG 1

A End of Sample Line Terminator & Filter (twin tube)
Part No. 007-105 includes 008-444

B Test Gas Tube Terminator
Part No. 007-103

C End of Sample Line Filter (single tube)
Part No. 008-444

End of line options:

Part No. 007-106	Sample line terminator box
Part No. 99-000	Sample draw point universal fitting
Part No. 99-0001	Sample draw point universal fitting + collector cone

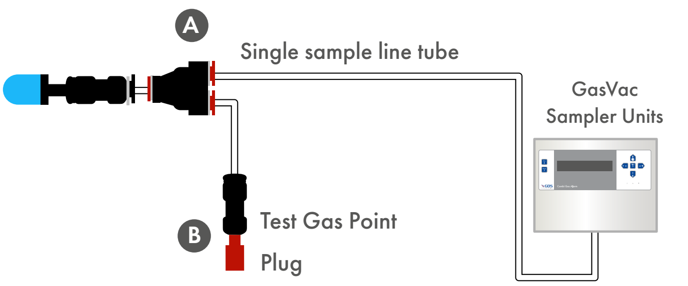

FIG 2

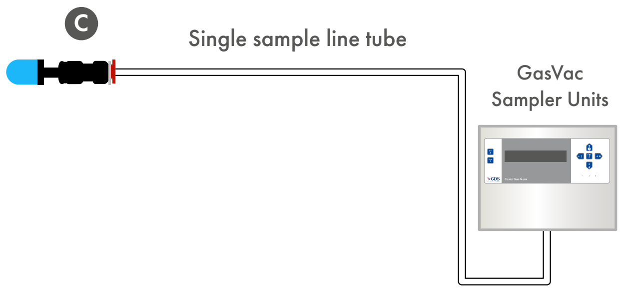

FIG 3

ISO 9001
ISO 14001
ISO 45001
INTEGRATED MANAGEMENT