

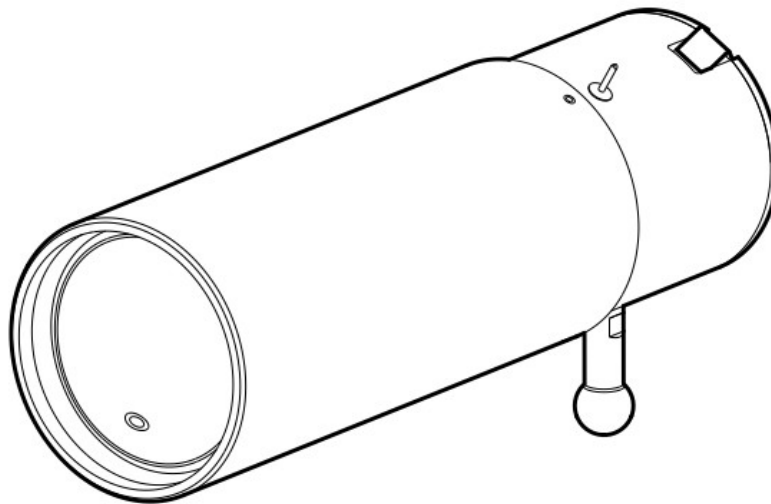


# Honeywell SEARCHLINE EXCEL PLUS Gassing Test Cell User Guide

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## Honeywell

QUICK START  
GUIDE  
GASSING TEST CELL  
SEARCHLINE EXCEL™ EDGE  
SEARCHLINE EXCEL™ PLUS



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The gassing test cell allows the Searchline Excel™ Plus and Searchline Excel™ Edge calibration to be checked using a user-specified gas concentration, as an alternative to the standard functional test filters.

#### **CAUTION**

Prerequisite for calibration check using the gassing test cell is installation of the Honeywell Fixed Platform App to a suitable handheld device.

The test gas must be the same as the gas calibration of the Searchline Excel Plus or Searchline Excel Edge units and ideally the concentration should be between 2 and 5 LEL.m, never below 1 LEL.m.

#### **Note**

For Universal Calibration units any of Methane, Ethane, Propane, Butane, Ethylene can be used. Natural gas mixes can also be tested.

#### **Note**

Cross-calibration is not recommended. Typical values for crosssensitivity are not sufficiently precise to enable valid calibration checks using the gassing test cell.

Response tests can easily be performed with the functional test filters.

Refer to the Technical Manual for more information.

#### **WARNING**

Take necessary precautions to ensure safety when dealing with high concentration gasses.

The gassing test cell supplied by Honeywell Analytics (Part No: 2017B0185) is 170 mm (6.7 in) long, weighs 958 g (2.11 lb), with gas path 138.8 mm (5.46 in).

The following table outlines the response expected when using this gassing test cell:

Gas type	LEL of the gas (% v/v)	Concentration applied (% v/v)	Calculated response with 138.8 mm (5.46 in) gas path (LEL.m)	4-20 mA output (mA)
Methane	4.4	80	2.5	12.0
Ethane	2.4	43	2.5	12.0
Propane	2.7	31	2.5	12.0
Butane	1.4	25	2.5	12.0
Pentane*	1.1	20	2.5	12.0
Ethylene	2.3	42	2.5	12.0
Propylene	2.0	36	2.5	12.0

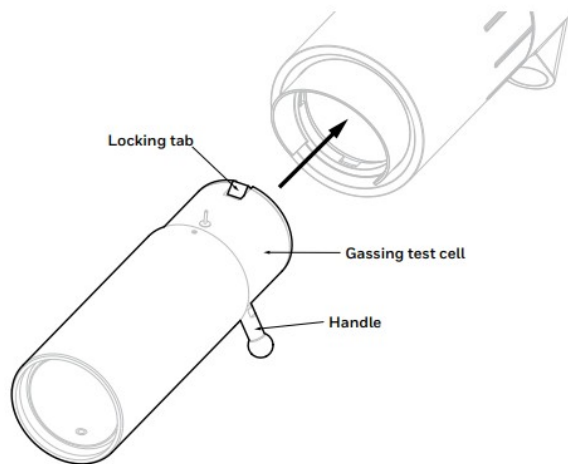
\* Pentane cannot be used with the gassing test cell. At normal temperatures, this substance does not vaporise sufficiently to give a useful signal in the short path of the gassing test cell.

#### **WARNING**

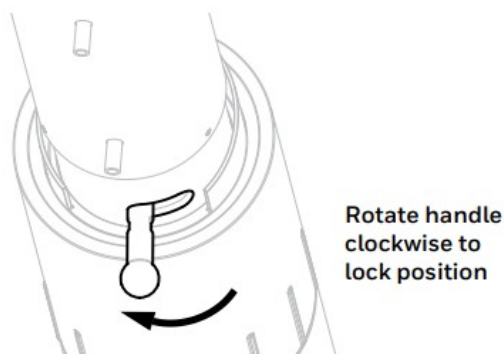
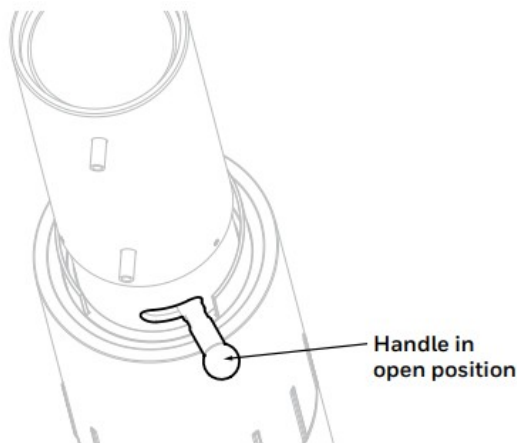
These gases are flammable and some are toxic. Take appropriate precautions when handling.

### **CONNECT THE GASSING TEST CELL**

1. Connect the gassing test cell to the receiver. Ensure the locking tab clicks into the right position.



2. Rotate the handle clockwise to lock the gassing test cell onto the receiver.



3. Zero the receiver with the empty gassing test cell.
4. Apply the test gas to the gassing test cell. Avoid pressurising the test cell. Wait for the receiver output to stabilise.
5. Check if the receiver output is as indicated in the table above,  $\pm 5\%$  FSD.
6. Remove the test gas from the gassing test cell.
7. Remove the gassing test cell.
8. Re-zero the receiver.

#### Note

Field calibration is not supported. If result is not as expected contact an authorized service centre.

#### NOTES

##### Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation and you are strongly advised to obtain copies of the most recently issued regulations, standards and guidelines. This publication is not intended to form the basis of a

contract.

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## Documents / Resources

	<p><a href="#">Honeywell SEARCHLINE EXCEL PLUS Gassing Test Cell</a> [pdf] User Guide SEARCHLINE EXCEL PLUS Gassing Test Cell, SEARCHLINE EXCEL PLUS, Gassing Test Cell , Test Cell, Cell</p>
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## References

- [H Safety and Productivity Solutions | Honeywell](#)
- [User Manual](#)

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