

H₂S Analyser & VPP

Product Bulletin

February 2015

Method Update: IP 570/14a

IP 570 was revised in November 2014 to IP 570/14a, to incorporate three main changes. These changes will appear in the 2015 method books.

1. Use of liquid verification solutions to validate apparatus performance is now mandatory

'The overall correct operation of the apparatus shall be checked at least every 3 months, following maintenance, when a new detector is fitted, or according to local quality control requirements by measurement of a solution of hydrogen sulfide'

Participation in a Proficiency Testing Scheme is stated as the preferred means to achieve this mandatory requirement, which is offered by Stanhope-Seta.

- **IP 570 PT Scheme product page;**
www.seta-analytics.com/ip-570-proficiency-testing-scheme.htm
- **IP 570 PT Scheme brochure;**
www.stanhope-seta.co.uk/view_pdf.asp?strPdf=IP-570-PT-scheme.pdf&strPage=dl



2. An alternative test vessel is available

Following a detailed study and robustness trial a new test vessel has been approved for use in IP 570/14a. The new test vessel, pictured opposite simplifies sample introduction.

The inlet and outlet connections have been enhanced to make connections to the instrument quick and easy and prevent incorrect orientation. Upgrades to accommodate this new system are easy and can be achieved in the field via the Test Vessel Upgrade Kit, using part number; SA4022-0

- **Test Vessel Upgrade Kit product page;**
www.stanhope-seta.co.uk/4840/Test-Vessel-Upgrade-Kit



3. 'Samples containing FAME do not affect the measurement of hydrogen sulfide by this test method'

Samples containing FAME were subjected to a number of tests at the manufacturer then the results were presented at the Energy Institute. The data obtained from these samples indicated that the presence of FAME had no effect on the results. In IP 570/14a the scope has been expanded, via Note 4, to allow samples that contain FAME to be tested.

Further information regarding these three changes can be found online using the following link;

- www.stanhope-seta.co.uk/News3.asp?NewsItemID=129

SA4000-3 Introduction

As a result of the new style test vessel for the H₂S Analyser, the SA4000-2 is now obsolete and has been replaced by part number; SA4000-3.

All future orders for the H₂S Analyser, whether as a standalone unit or with the Vapour Phase Processor (VPP), must be ordered using part number; SA4000-3.

Customers ordering new H₂S Analysers, who already have either a -0 or -2 H₂S Analyser, can seek advice as to their upgrade options on a case by case basis.



What are the differences between SA4000-2 / SA4000-0 and SA4000-3?

The only difference is that the SA4000-3 is automatically fitted with the new style vessel and therefore does not require the test vessel upgrade kit.

Is there a change in price when ordering the SA4000-3?

No, the price of the SA4000-3 is the same as the SA4000-2.

Can the SA4012-2 Engineering Service Kit be used for the SA4000-3?

The SA4012-2 Engineering Service Kit is now obsolete and has been replaced by a universal engineering kit (SA4012-3) which can be used for all H₂S Analyser versions. The kit comprises of the same parts however an additional piece of tubing has been included to accommodate the new style test vessel.

What if the SA4000-0 / SA4000-2 is not upgraded to accommodate the new style test vessel?

Existing H₂S Analysers (SA4000-0/SA4000-2) will not be affected and will carry on being fully supported using existing part numbers.

Which consumables/kits cannot be used with the SA4000-3?

All existing consumables, kits and spares can be used with the SA4000-3 H₂S Analyser except for the following;

- **SA4005-2 Consumables kit for 200 tests**
- **SA4000-002 H₂S Test Vessels (pack of 5)**
- **SA4003-2 H₂S Start Up Kit (approx 20 tests)**

The above listed part numbers can only be used for SA4000-0 and SA4000-2 versions.

Which consumables/kits can only be used for SA4000-3 or H₂S Analysers that have been test vessel upgraded?

- **SA4005-3 Consumables kit for 200 tests**
- **SA4005-3 Consumable kit product page;**
[www.stanhope-seta.co.uk/4911/H2S-Consumables-kit-\(200-tests\)](http://www.stanhope-seta.co.uk/4911/H2S-Consumables-kit-(200-tests))
- **SA4000-304 H₂S Test Vessels (pack of 5)**
- **SA4000-304 H₂S Test Vessels product page;**
[www.stanhope-seta.co.uk/4841/Test-Vessel-\(5\)](http://www.stanhope-seta.co.uk/4841/Test-Vessel-(5))
- **SA4003-3 H₂S Start Up Kit (approx 20 tests)**
- **SA4003-3 H₂S Start Up Kit product page;**
[www.stanhope-seta.co.uk/4910/H2S-Start-up-Kit-for-IP-570-\(approx-20-tests\)](http://www.stanhope-seta.co.uk/4910/H2S-Start-up-Kit-for-IP-570-(approx-20-tests))

Summary of part numbers:

Consumable/Kit	H ₂ S Analyser Versions	
	SA4000-0 SA4000-2	SA4000-3 Units upgraded*
SA4005-2 Consumables Kit	×	
SA4000-002 H ₂ S Test Vessels	×	
SA4003-2 H ₂ S Start Up Kit	×	
SA4005-3 Consumables Kit		×
SA4000-304 H ₂ S Test Vessels		×
SA4003-3 H ₂ S Start Up Kit		×
SA4012-3 Universal Engineering Service Kit	×	×
*Note; 'upgrade units' refer to units upgraded to accommodate the new style test vessel		

Key Points:

- If either a SA4000-0/SA4000-2 H₂S Analyser has been upgraded to incorporate the new style test vessel, ensure that the correct part numbers for the; Test Vessels, Consumables Kit and Start Up Kit are ordered.
- If a new H₂S Analyser (SA4000-3), with or without a VPP, is purchased, ensure that the correct part numbers for the; Test Vessels, Consumables Kit and Start Up Kit are ordered.
- SA4000-2 is now obsolete and can no longer be ordered.
- New H₂S Analysers (SA4000-3) do not require a test vessel upgrade.
- Existing SA4000-0 / SA4000-2 which have been upgraded to accommodate the new style test vessel will require SA4000-304 H₂S Test Vessels from then on.
- The introduction of the SA4000-3 is effective immediately.
- The SA4012-2 is now obsolete and replaced with SA4012-3.

Actions:

- Ensure that all customers are aware of the difference in part numbers for all versions of the H₂S Analyser.
- Distribute information regarding the Test Vessel Upgrade Kit.
- Amend any existing H₂S Analyser WEB pages to reflect the part numbers and description changes.
- If applicable, update quote templates to reflect the new H₂S Analyser part numbers and descriptions.
- Include the Test Vessel Upgrade Kit as a product on your website.
- Ensure that all customers purchasing a new H₂S Analyser are aware that their unit will have the new style test vessel upgrade automatically fitted.