Longfield Road, Tunbridge Wells, Kent, TN2 3EY, UK Tel +44 (0) 1892 500400 Fax +44 (0) 1892 543115



Service & Repair Department

Internal Repair Instruction

Instruction Number: RI015 Version 1.0

Title: Process Refractometer (PRH) calibration check (AdBlue)

Date: 23 Dec 2014

Compiled By: PJW

Related Instruments: Process refractometers (PRH)

Description:

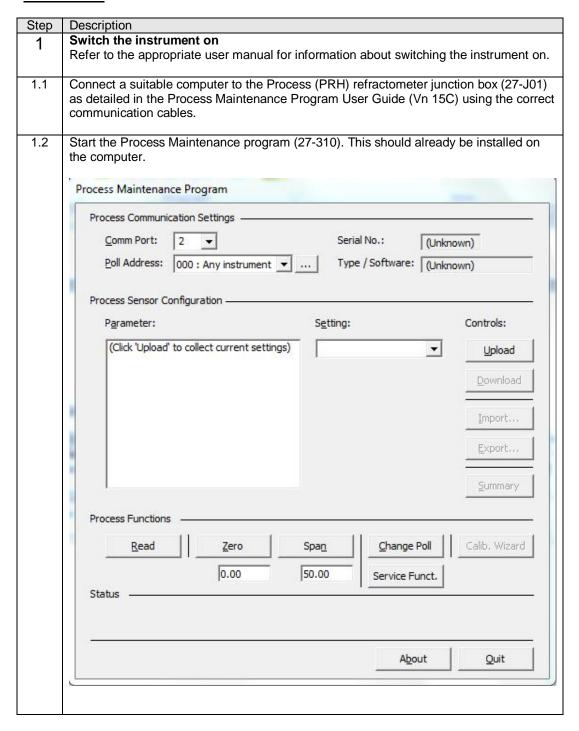
Simple test procedure to check the calibration of PRH process refractometer using AdBlue UDS (27-843).

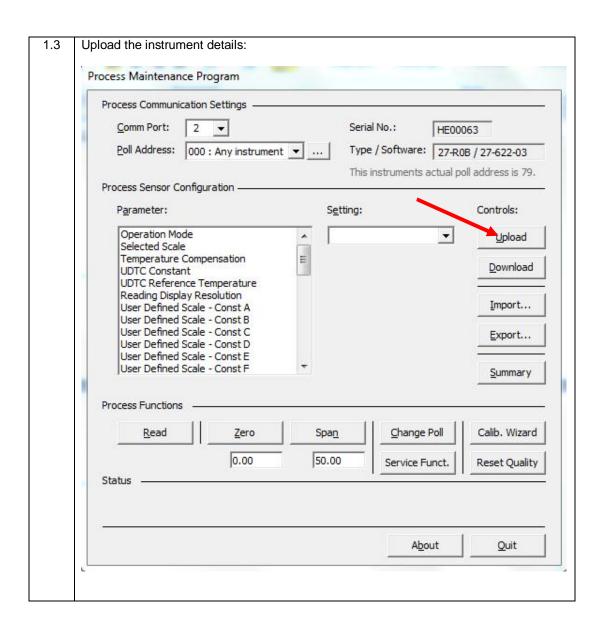
Document modification record						
Issue	Date	Details of change	Modified by.			
1.0	23/12/2014	First issue				

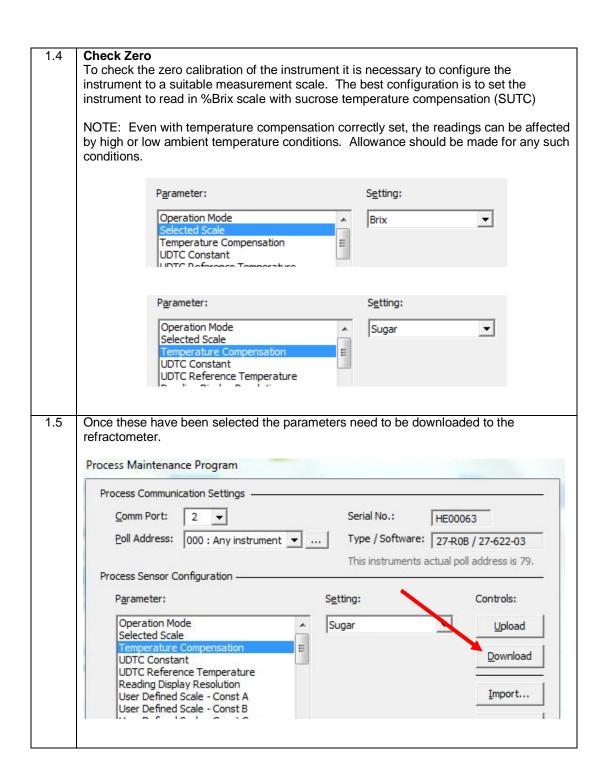
Caution:

- 1. This procedure is only to be carried out by Bellingham + Stanley technicians or suitably trained third party agents where specifically authorised.
- 2. These instructions assume electronic engineering competence of the operator, and should be familiar with Bellingham + Stanley instruments and procedures.
- 3. Correct ESD precautions should be observed to prevent damage to sensitive electronic components if the instrument is to be opened.

Procedure







1.6 The refractometer needs to be removed from the manifold and placed on a work surface with the prism at the top.

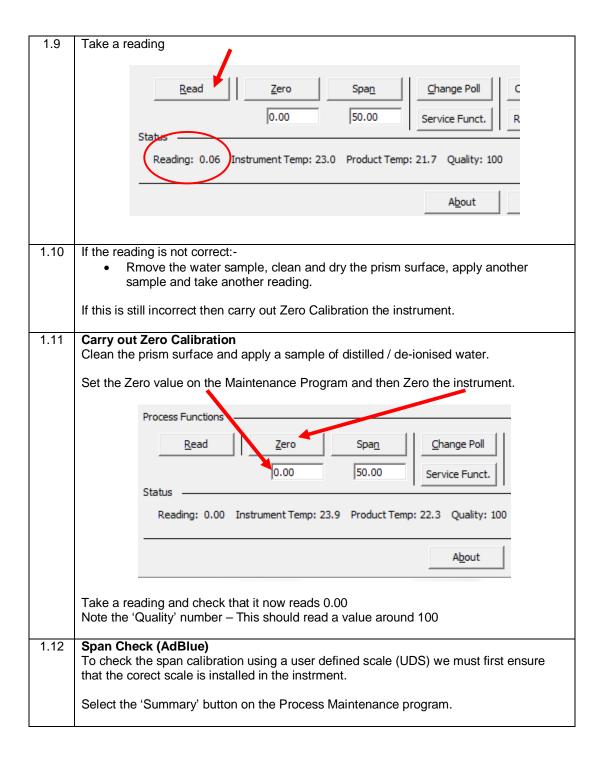


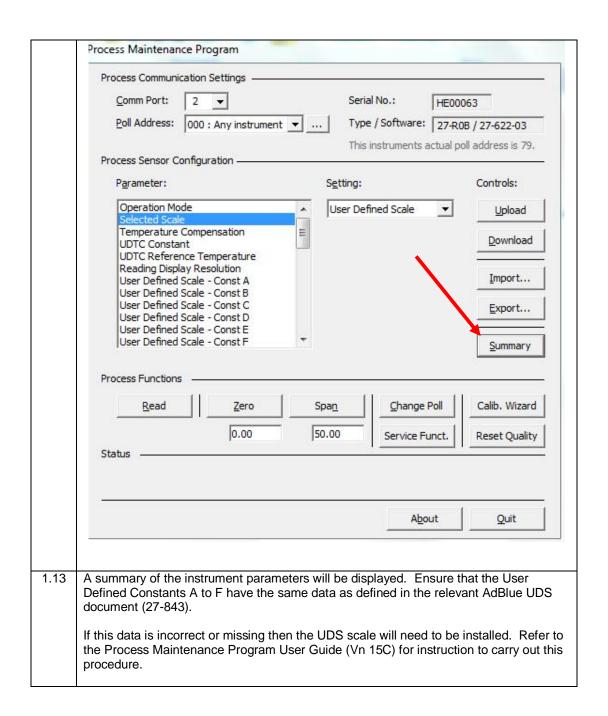
1.7 Clean the prism surface..

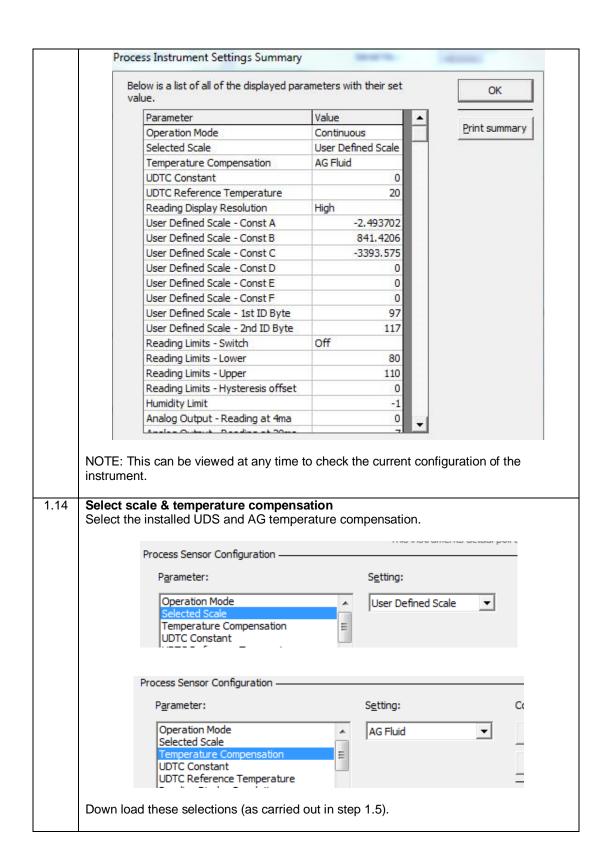
1.8 Zero Check

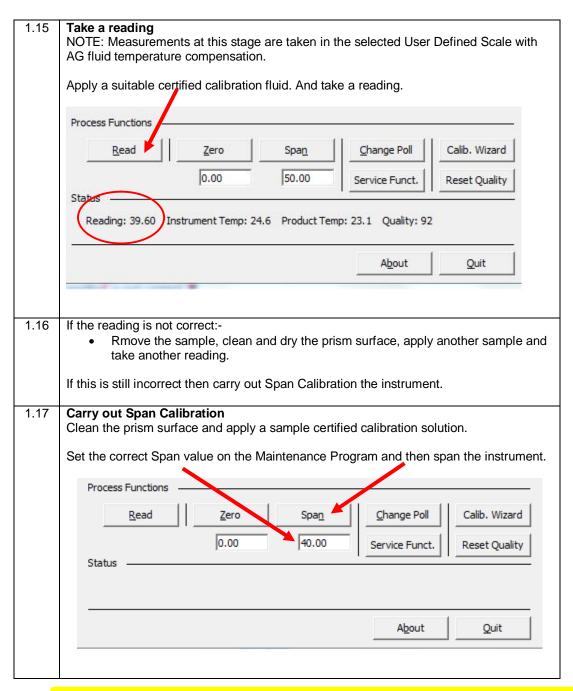
Check the calibration at zero by placing a sample of distilled / de-ionised water on to the prism surface.











Please note! Us the value provided with the certificate of the AG-Liquids. (32.5AUS)

	Take a reading and check that it now reads the corerct span value.							
	Take a reading and check that it now reads the corerct spair value.							
	Process Functions ————————————————————————————————————	Zero Spa <u>n</u>	<u>C</u> hange Poll	Calib. Wizard				
	State of the state	0.00 40.00	Service Funct.	Reset Quality				
	Reading: 40.01 Instrument Temp: 24.8 Product Temp: 23.3 Quality: 91							
			A <u>b</u> out	Quit				
4.40								
1.18	Calibration Check Carry out further calibration checks as required using additional certified calibration standards.							
	NOTE: Ensure that a suitable scale and temperature compensation is selected for the certified calibration materials used.							
	Record results:							
	Scale:							
	Temperature Compensation:							
	Zero Point:							
	Span Point:							
	Test Standard	Value	Measured Result	Deviation				
	All measurements should read within the published tolerances for the instrument type. If any measurements fall outside the expected tolerance then repeat the Zero & Span process and check the calibration again.							
1.19	Once all calibration checks are complete, return the instrument to the original configuration. Download this configuration.							
	Exit the Process Maintenance program by selecting 'Quit'.							
	Re-connect the Process refractometer to the manifold and ensure that all bolts are secure.							