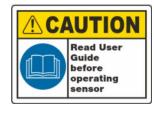


ON-SITE CALIBRATION GUIDE: MES1001 MARPOL







NOTICE

For details on how to install and operate the MES1001 MARPOL, please refer to Installation Guide (doc. no. 101407-MAN and User Guide (doc. no. 101450-MAN).

-Please go to Danfoss IXA website for latest versions available: www.danfoss-ixa.com

Calibration to be done using the On-site Gas Calibration Kit and Calibration Gas, only supplied by Danfoss IXA: 930090-001-A; On-Site Gas Calibration Kit

930091-001-A; NO Span Gas Cylinder

Please calibrate the analyzer by following below procedure

Total duration: Max. 10 minutes.

1)	 Check that analyzer is installed correctly and turned ON for >30 minutes: a) Mounted on flange with gasket installed b) Compressed air is connected c) No active alarms/warnings on Local Control Panel (LCP) d) Air filter is installed and in good working condition e) Interface cable(s) are connected f) 24 VDC power supply is connected [X1] and switch [S1] is ON (1) 	Are of 1-2 Are of
2)	 Stop engine and ensure that it cannot start during calibration process. If the calibration is interfered, the process must be restarted 	Desploit Desploit Stress 0022 Tech 2335 Stress 0022 Stress 0022 Stress 0022 Stress 0022 Stress 0022 Stress 002 Stress 002 Stress 002
3)	Exhaust gas temp. should be below 200°C	
	- Press "Status" and cycle through using <> to see actual T _{exh}	
4)	 Stop measurements with "Start/Stop" button on control panel. Analyzer to be in Standby mode before proceeding 	



- 5) Connect certified calibration gas to **"Cal Gas"** connection [X75].
 - a) Note the gas concentration from specific gas cylinder certificate (Range: 263-329 ppm) and check that it has not expired.

NB: Do not use the concentration marked on the cylinder itself – Only use certificate value!

- b) Ensure that valve on regulator is closed
- c) Connect regulator on calibration gas cylinder
- d) Connect tube to analyzer [X75] Ensure connection is clean and in good working order



NOTICE Concentration of NO calibration gas – 300 ppm (Tolerance range: 263-329 ppm) – is required for valid calibration of the MES1001 MARPOL. This differs from the NO / NOx operational ranges of 1500ppm/2000 ppm, and is required due to specific sampling technique used during calibration.

6)	 Follow gas calibration wizard on Local Control Panel: a) Press "Menu" button and select "Gas Calibration" menu b) Enter certificate gas concentration value using AV on Local Control Panel c) Open valve on regulator d) Confirm selected gas and concentration 	Main Menu 3-** Interfaces 4-** Sensor info 5-** Maintenance 6-** Gas Calibration
7) 8)	 Gas calibration progress can be followed on Local Control Panel When prompted to disconnect gas: a) Close valve on regulator b) Disconnect tube from analyzer c) Analyzer is now ready for normal operation d) Pack cylinders and equipment in carrying case, and store in a cool place – If one or more cylinders are empty; depressurize and dispose of, as described in User Guide. 	
You have now succesfully calibrated your MES 1001 MARPOL		