Thermo Scientific™ Particulate Matter **Continuous Emissions Monitoring System**

MAINTENANCE AND TROUBLESHOOTING GUIDE

	<u> </u>		
Operator		Date	
Site location	Т	Гіте	
Probe controller serial #			
Probe monitor serial #			
Firmware version			

INSTRUMENT DIAGNOSTICS

Activity	Displayed value	Calibration date	Verification date
Sample volume check:			
Sample Flow			
Mems Flow			
System check results:			
Upscale drift UDC +/- 2%			
Volume drift VDC +/- 5%			
Zero Drift ZD +/- 2%			
Temperature check:			
Dilution (set point 165°C +/- 1°C)			
Stinger (set point 120°C +/- 1°C)			
Bypass (set point 100°C +/- 1°C)			
Nephelometer (set point 58°C +/- 0.5°C)			
TEOM air tube (set point 62°C +/- 0.1°C)			
TEOM case (set point 65°C +/- 0.1°C)			
Flow check:			
Dilution flow (set point 21slpm)			
Bypass flow (set point 21 slpm)			
Sample flow (set point 2.5 slpm)			
Purge flow ~ 0.45 slpm (orifice)			
Nozzle flow = (Bypass flow + Sample flow) - (Dilution flow+ purge flow) +/- 0.1 slpm of 2.0 slpm			

Reading
Pass/Fail

Mass Verification	Frequency	Weight	Audit K0
Starting Frequency:			
Disk #1			
Disk #2			
Disk #3			
Audit K0 = (1/(F1)^2 - 1/(F2)^2)/weight of disk			
Factory K0 compared to Audit K0 within 5%			

For more information, please consult your technical support representative.

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27 Forge Parkway Franklin, MA 02038 Ph: (866) 282-0430 Fax: (508) 520-2800 orders.aqi@thermofisher.com

C/327. TTC Industrial Area MIDC Pawane New Mumbai 400 705, India india@thermofisher.com

+Linits 702-715 7th Floor Tower West, Yonghe Beijing, China 100007 +86 10 84193588 info.eid.china@thermofisher.com Europe

Takkehiisters 1 Breda Netherlands 4801EB +31 765795641 info.aq.breda@thermofisher.com



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