

THORNTON

Leading Pure Water Analytics

Mettler-Toledo Thornton, Inc.

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450TOC Analyzer

***** Certificate of Test and Accuracy *****

Mettler-Toledo Thornton, Inc., an ISO 9001 company, hereby certifies that the following instrument performs within published specifications. Calibration procedures comply with ISO 10012-1, ASTM D5391 for conductivity and D5173 for TOC. Calibration standards used are traceable to the National Institute of Standards and Technology (NIST) for temperature and ASTM standard D1125 for conductivity.

Calibration Procedure: TP97325
Model Number: 58036041
Serial Number: 814430007
Temperature: 25.1 deg.C

Date Performed: 02/12/2018
Software Rev.: 1.00
Technician: T. Anderson *TC*
Relative Humidity: 108%

Calibration Standards:	Make:	Model:	S/N:	Cal. Due:
770 MAX Meter	Thornton	775-LA2	714020006	01/02/2019
Standard Sensor	Thornton	58031404	5812424267	02/27/2018
Flow Meter	Malema	M-1500P-T11	42378-001	05/22/2018

TOC Measurement Calibration and Test Results:

Setting	Standard	Lot	Measured	Deviation	Limit	Units	Status
250.0	253.0	JSM020918S10	251.9	-1.08	+/-25.0	ppb C	PASS
500.0	503.0	JSM020918S9	504.8	1.84	+/-50.0	ppb C	PASS

TOC Constants: Multiplier1: 1.62179 Additive1: 1.50000
Multiplier2: 1.43455 Additive2: 30.53728

Conductivity Sensor #1 S/N: 814430008

	Standard	Measured	Deviation	Limit	Units	Status
Uncompensated:	1149.42	1150.41	0.09%	+/-2.00%	kohm-cm	PASS
Compensated:	1135.44	1136.43	0.09%	+/-2.00%	kohm-cm	PASS
Temperature:	24.46	24.46	0.00	+/-0.20	DegC	PASS

Cell Constants: Multiplier: 0.09797 Additive: 0.00000
Temp Constants: Multiplier: 1.00000 Additive: -2.72624

Conductivity Sensor #2 S/N: 814430009

	Standard	Measured	Deviation	Limit	Units	Status
Uncompensated:	1149.42	1150.92	0.13%	+/-2.00%	kohm-cm	PASS
Compensated:	1135.44	1136.93	0.13%	+/-2.00%	kohm-cm	PASS
Temperature:	24.46	24.46	0.00	+/-0.20	DegC	PASS

Cell Constants: Multiplier: 0.09678 Additive: 0.00000
Temp Constants: Multiplier: 1.00000 Additive: -2.15824

Flow Sensor S/N: 814430010

	Standard	Measured	Deviation	Limit	Units	Status
Flow:	20.26	20.04	-0.22	+/-0.50	mL/min	PASS

Flow Constants: Multiplier: 1.31900 Additive: -5.73280

HiPot Test: PASS

METTLER TOLEDO