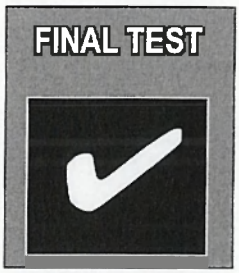
ThermoFisher
SCIENTIFIC



Final Test - *Collaudo finale*

☐ 01 **Instrument** TPDRO *Apparecchio*	☐ 02 **Model** 1100 *Modello*
☐ 03 **Part Number** 1154001.0 *Codice*	☐ 04 **Serial Number** 20130521 *Matricola*
☐ 05 **Tested By** Paolo Turra *Firma del collaudatore*	☐ 06 **Date** 23-07-2013 *Data*

- ☑ Pneumatic External Leak Tests
  Controllo di tenuta esterna dei circuiti pneumatici
- ☑ Pneumatic Internal Leak Tests
  Controllo di tenuta interna dei circuiti pneumatici
- ☑ TCD Pneumatic Leak Tests
  Prova di tenuta pneumatica per il Rivelatore TCD
- ☑ Ballistic Temperature Increase and Forced Cooling Test
  Prova di salita balistica e di raffreddamento forzato
- ☑ Oven Temperature Control
  Controllo delle temperature del forno
- ☑ Temperature Programmed Test
  Controllo della linea di base a temperatura programmata
- ☒ Loop Calculation
  Calcolo del loop
  Reading - *Valore rilevato* 0,352 cc
- ☑ Electronic Function Tests
  Controllo delle funzioni elettroniche
- ☐ Backup Battery Test
  Controllo della batteria tampone
- ☑ Inspection of Unit Paint Work
  Controllo delle parti verniciate

- ☐ Analytical Test with Reference Matenal
  Test analitico con campione di riferimento
- ☑ Earth Leakage Current Test
  Prova della corrente di dispersione
  Reading - *Valore rilevato* 68 mV
- ☑ Functional Earth Terminal Test
  Prova di continuità di terra
  Reading - *Valore rilevato* 0.06 Ω
- ☒ Voltage Test
  Prova di tensione
  Result -*Risultato* 0,5 mA
- ☐ Direct Current Supply Test
  Prova dell'alimentazione in corrente continua
- ☐ Safety System Control
  Prova dei sistemi di sicurezza
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

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CALIBRATION RECORD SHEET

DUT

Dev. Under Test:	1179B01312CS1BN	**Range:**	100 sccm N2
Serial Number:	G511531G20	**Cal. Table No:**	1
Cal. Date:	2013-02-25	**Cal. Table Active:**	x

Calibration

#	Dev. Under Test [sccm]	Flow Rate [sccm]	rel. Deviation [% of F.S.]
0	0.01	0.00	0.01
1	9.99	9.99	0.00
2	20.00	20.00	0.00
3	40.00	39.89	0.11
4	60.00	59.83	0.17
5	80.00	79.66	0.34
6	100.00	99.58	0.42

Calibration Conditions

Orientation:	vertical	**Ambient Temp.:**	23 °C
Calibration Gas:	N2	**GCF:**	1.00
Inlet Pressure:	2700 mbar		

Reference

Reference Unit:	1179D01312CM14V	**QC check ID:**	P-F5.0004
Serial Number:	G504014G20	**QC ID expires:**	2013-08-19
Calibration System:	MICROCAL F4	**QC check ID:**	P-F5
Serial Number:	0102030509	**QC ID expires:**	2013-08-28

In Tolerance:	x	**As Found:**	
Out of Tolerance:		**As Left:**	
Process Date:	2013-02-25	**Data by:**	

This calibration was performed with a reference which was calibrated against DryCal ML-800 (traceable to NIST). The Device Under Test (DUT) was warmed and stabilized for the recommended time, specified by manufacturer, before check/adjustment to zero.

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CALIBRATION RECORD SHEET

DUT

Dev. Under Test:	1179B01312CS1BN	**Range:**	100 sccm N2
Serial Number:	G511530G20	**Cal. Table No:**	1
Cal. Date:	2013-02-25	**Cal. Table Active:**	x

Calibration

#	Dev. Under Test [sccm]	Flow Rate [sccm]	rel. Deviation [% of F.S.]
0	-0.01	0.00	-0.01
1	10.00	10.03	-0.03
2	20.00	19.96	0.04
3	40.00	40.15	-0.15
4	60.00	60.07	-0.07
5	80.00	79.85	0.14
6	100.00	99.79	0.21

Calibration Conditions

Orientation:	vertical	**Ambient Temp.:**	23 °C
Calibration Gas:	N2	**GCF:**	1.00
Inlet Pressure:	2700 mbar		

Reference

Reference Unit:	1179D01312CM14V	**QC check ID:**	P-F5.0004
Serial Number:	G504014G20	**QC ID expires:**	2013-08-19
Calibration System:	MICROCAL F4	**QC check ID:**	P-F5
Serial Number:	0102030509	**QC ID expires:**	2013-08-28

In Tolerance:	x	**As Found:**	
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Process Date:	2013-02-25	**Data by:**	

This calibration was performed with a reference which was calibrated against DryCal ML-800 (traceable to NIST). The Device Under Test (DUT) was warmed and stabilized for the recommended time, specified by manufacturer, before check/adjustment to zero.