



Driftcon Result

General information

Testnumber
Test date 14-Jan-2019
Start time 12:04
End time 12:26
Print date 19-Mar-2019
License Paid self service license

Device information

Description
Manufacturer
Instrument type
Instrument serial
Block type 96 x 0.2ml
Block position Single

Hardware box information

Serial
Software version 070102

Probe information

Serial
Probe Driftcon PLATA 96v-15
Calibration date 13-Nov-2018 Expiry date 12-Nov-2020
Uncertainty 0.23 °C ($k = 2$)

User information

Last name
First name
Institute
Department

Protocol

Step 1 : 30.0 °C for 60 seconds
Step 2 : 95.0 °C for 180 seconds
Step 3 : 30.0 °C for 120 seconds
Step 4 : 90.0 °C for 180 seconds
Step 5 : 50.0 °C for 180 seconds
Step 6 : 70.0 °C for 180 seconds
Step 7 : 60.0 °C for 180 seconds
Step 8 : 30.0 °C for 60 seconds

Specification set

Type Market specifications
Date 11-Jan-2019
Population n > 250

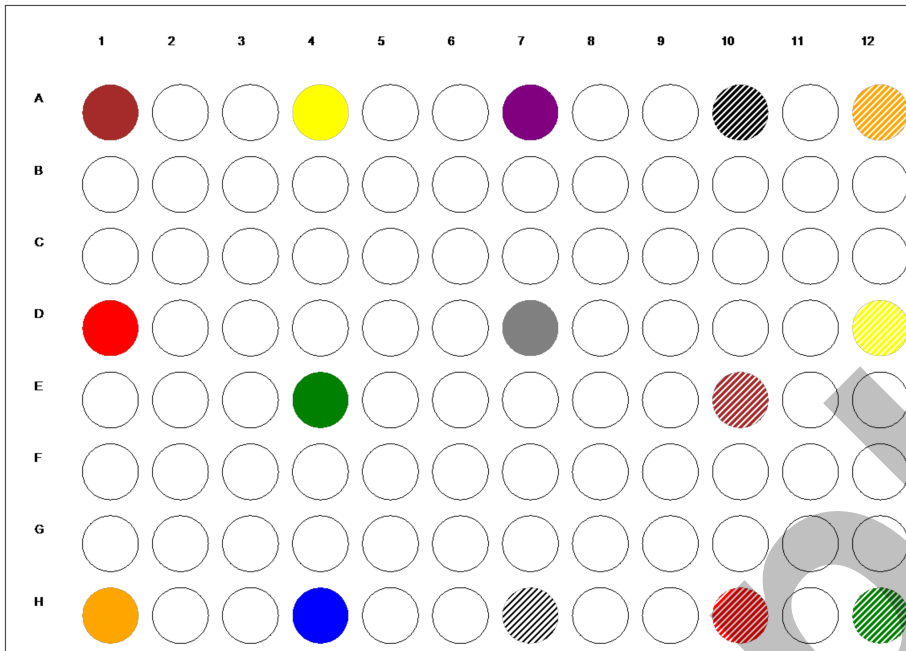
Software information

Report created Driftcon 2.2.0.0
Report printed Driftcon 2.2.0.0
Analysis engine 20-Dec-2013
Measurement engine 16-Jun-2014
Definitions 14-Jan-2019

Probe information

— Sensor 1 (A1)	2555 samples	100 %
— Sensor 2 (D1)	2555 samples	100 %
— Sensor 3 (H1)	2555 samples	100 %
— Sensor 4 (A4)	2555 samples	100 %
— Sensor 5 (E4)	2555 samples	100 %
— Sensor 6 (H4)	2555 samples	100 %
— Sensor 7 (A7)	2555 samples	100 %
— Sensor 8 (D7)	2555 samples	100 %
- - - - Sensor 9 (H7)	2555 samples	100 %
— Sensor 10 (A10)	2555 samples	100 %
- - - - Sensor 11 (E10)	2555 samples	100 %
- - - - Sensor 12 (H10)	2555 samples	100 %
- - - - Sensor 13 (A12)	2555 samples	100 %
- - - - Sensor 14 (D12)	2555 samples	100 %
- - - - Sensor 15 (H12)	2555 samples	100 %

Probe layout



Recommended control positions

Positive E10 E4

Negative H12 H7

Protocol run time

21 m:16 s

Environmental conditions

Ambient 22.7 °C
Relative humidity 45.8 %rh

Testnumber 11021916-00680
 Temperature 95.0 °C
 Plateau start 12:06:07 (sample 164)

Values after 30 seconds

	Measured	Deviation ($t_{90}-t$)	Status
— Sensor 1 (A1)	95.05°C	0.05°C	Active
— Sensor 2 (D1)	95.35°C	0.35°C	Active
— Sensor 3 (H1)	94.97°C	-0.03°C	Active
— Sensor 4 (A4)	95.14°C	0.14°C	Active
— Sensor 5 (E4)	95.43°C	0.43°C	Active
— Sensor 6 (H4)	95.00°C	0.00°C	Active
— Sensor 7 (A7)	95.19°C	0.19°C	Active
— Sensor 8 (D7)	95.47°C	(+) 0.47°C	Active
- - - - - Sensor 9 (H7)	95.01°C	0.01°C	Active
— Sensor 10 (A10)	95.13°C	0.13°C	Active
- - - - - Sensor 11 (E10)	95.39°C	0.39°C	Active
- - - - - Sensor 12 (H10)	95.00°C	0.00°C	Active
- - - - - Sensor 13 (A12)	95.12°C	0.12°C	Active
- - - - - Sensor 14 (D12)	95.37°C	0.37°C	Active
- - - - - Sensor 15 (H12)	94.82°C	(-) -0.18°C	Active

Step results (n > 250)

Item	Measured	Specification	Result
Heat rate	2.94°C/s	2.88± 0.64°C/s	✓✓✓
Hold time	186s	188.13± 4.20s	✓✓✓
Max. overshoot	100.44°C	100.45± 2.35°C	✓✓✓
Avg. overshoot	99.47°C	99.15± 2.89°C	✓✓✓
Avg. heated lid	104.17°C	98.21± 30.60°C	✓✓✓

Accuracy results (n > 250)

Time	Measured	Specification	Result
15 s	95.27°C	95.15± 0.44°C	✓✓✓
10-20 s	95.29°C	95.17± 0.45°C	✓✓✓
30 s	95.16°C	95.08± 0.40°C	✓✓✓
25-35 s	95.16°C	95.08± 0.40°C	✓✓✓
90 s	95.16°C	95.08± 0.39°C	✓✓✓
85-95 s	95.17°C	95.08± 0.39°C	✓✓✓

Uniformity results (n > 250)

Time	Measured	Specification	Result
15 s	0.76°C	0.86± 0.54°C	✓✓✓
10-20 s	0.93°C	1.07± 0.71°C	✓✓✓
30 s	0.65°C	0.72± 0.42°C	✓✓✓
25-35 s	0.70°C	0.78± 0.48°C	✓✓✓
90 s	0.49°C	0.56± 0.41°C	✓✓✓
85-95 s	0.50°C	0.57± 0.41°C	✓✓✓

Legend

✓ = Pass ✗ = Fail ! = Excellent ? = No specifications

Testnumber 11021916-00680
 Temperature 30.0 °C
 Plateau start 12:09:40 (sample 589)

Values after 30 seconds

	Measured	Deviation ($t_{90}-t$)	Status
— Sensor 1 (A1)	30.15°C	0.15°C	Active
— Sensor 2 (D1)	29.85°C	-0.15°C	Active
— Sensor 3 (H1)	29.94°C	-0.06°C	Active
— Sensor 4 (A4)	30.20°C	0.20°C	Active
— Sensor 5 (E4)	29.83°C	-0.17°C	Active
— Sensor 6 (H4)	30.00°C	0.00°C	Active
— Sensor 7 (A7)	30.28°C	(+) 0.28°C	Active
— Sensor 8 (D7)	29.87°C	-0.13°C	Active
- - - - - Sensor 9 (H7)	30.01°C	0.01°C	Active
— Sensor 10 (A10)	30.16°C	0.16°C	Active
- - - - - Sensor 11 (E10)	29.76°C	(-) -0.24°C	Active
- - - - - Sensor 12 (H10)	29.94°C	-0.06°C	Active
- - - - - Sensor 13 (A12)	30.24°C	0.24°C	Active
- - - - - Sensor 14 (D12)	29.92°C	-0.08°C	Active
- - - - - Sensor 15 (H12)	30.09°C	0.09°C	Active

Step results (n > 250)

Item	Measured	Specification	Result
Cool rate	2.28°C/s	2.22± 0.37°C/s	✓
Hold time	129s	130.90± 5.66s	✓
Max. undershoot	27.08°C	27.15± 1.49°C	✓
Avg. undershoot	27.55°C	28.22± 2.07°C	✓
Avg. heated lid	103.10°C	97.19± 31.18°C	✓

Accuracy results (n > 250)

Time	Measured	Specification	Result
15 s	30.13°C	30.09± 0.50°C	✓
10-20 s	30.15°C	30.11± 0.52°C	✓
30 s	30.02°C	29.98± 0.36°C	✓
25-35 s	30.02°C	29.98± 0.37°C	✓
90 s	30.00°C	29.96± 0.31°C	✓
85-95 s	30.00°C	29.96± 0.31°C	✓

Uniformity results (n > 250)

Time	Measured	Specification	Result
15 s	0.51°C	0.63± 0.64°C	✓
10-20 s	0.52°C	0.72± 0.81°C	✓
30 s	0.51°C	0.52± 0.43°C	✓
25-35 s	0.52°C	0.55± 0.47°C	✓
90 s	0.37°C	0.35± 0.30°C	✓
85-95 s	0.37°C	0.39± 0.30°C	✓

Legend

✓ = Pass ✗ = Fail ! = Excellent ? = No specifications

Testnumber 11021916-00680
 Temperature 90.0 °C
 Plateau start 12:12:07 (sample 883)

Values after 30 seconds

	Measured	Deviation ($t_{90}-t$)	Status
— Sensor 1 (A1)	90.00°C	0.00°C	Active
— Sensor 2 (D1)	90.28°C	0.28°C	Active
— Sensor 3 (H1)	89.92°C	-0.08°C	Active
— Sensor 4 (A4)	90.08°C	0.08°C	Active
— Sensor 5 (E4)	90.32°C	0.32°C	Active
— Sensor 6 (H4)	89.95°C	-0.05°C	Active
— Sensor 7 (A7)	90.17°C	0.17°C	Active
— Sensor 8 (D7)	90.39°C	(+) 0.39°C	Active
- - - - - Sensor 9 (H7)	89.96°C	-0.04°C	Active
— Sensor 10 (A10)	90.10°C	0.10°C	Active
- - - - - Sensor 11 (E10)	90.32°C	0.32°C	Active
- - - - - Sensor 12 (H10)	89.98°C	-0.02°C	Active
- - - - - Sensor 13 (A12)	90.13°C	0.13°C	Active
- - - - - Sensor 14 (D12)	90.32°C	0.32°C	Active
- - - - - Sensor 15 (H12)	89.83°C	(-) -0.17°C	Active

Step results (n > 250)

Item	Measured	Specification	Result
Hold time	186s	188.08± 3.55s	✓
Max. overshoot	95.69°C	95.68± 2.44°C	✓
Avg. overshoot	94.60°C	94.41± 3.13°C	✓
Avg. heated lid	103.99°C	97.40± 32.01°C	✓

Accuracy results (n > 250)

Time	Measured	Specification	Result
15 s	90.26°C	90.15± 0.42°C	✓
10-20 s	90.30°C	90.18± 0.43°C	✓
30 s	90.12°C	90.05± 0.38°C	✓
25-35 s	90.12°C	90.05± 0.37°C	✓
90 s	90.13°C	90.05± 0.37°C	✓
85-95 s	90.12°C	90.05± 0.37°C	✓

Uniformity results (n > 250)

Time	Measured	Specification	Result
15 s	0.74°C	0.78± 0.51°C	✓
10-20 s	0.93°C	0.99± 0.69°C	✓
30 s	0.56°C	0.65± 0.40°C	✓
25-35 s	0.58°C	0.71± 0.48°C	✓
90 s	0.40°C	0.50± 0.38°C	✓
85-95 s	0.41°C	0.51± 0.38°C	✓

Legend

✓ = Pass ✗ = Fail ! = Excellent ? = No specifications

Testnumber 11021916-00680
 Temperature 50.0 °C
 Plateau start 12:15:26 (sample 1281)

Values after 30 seconds

	Measured	Deviation ($t_{90}-t$)	Status
— Sensor 1 (A1)	50.20°C	0.20°C	Active
— Sensor 2 (D1)	50.01°C	0.01°C	Active
— Sensor 3 (H1)	50.02°C	0.02°C	Active
— Sensor 4 (A4)	50.23°C	0.23°C	Active
— Sensor 5 (E4)	49.98°C	-0.02°C	Active
— Sensor 6 (H4)	50.04°C	0.04°C	Active
— Sensor 7 (A7)	50.30°C	(+) 0.30°C	Active
— Sensor 8 (D7)	50.02°C	0.02°C	Active
----- Sensor 9 (H7)	50.04°C	0.04°C	Active
— Sensor 10 (A10)	50.19°C	0.19°C	Active
----- Sensor 11 (E10)	49.92°C	(-) -0.08°C	Active
- - - - - Sensor 12 (H10)	50.01°C	0.01°C	Active
- - - - - Sensor 13 (A12)	50.27°C	0.27°C	Active
- - - - - Sensor 14 (D12)	50.05°C	0.05°C	Active
- - - - - Sensor 15 (H12)	50.08°C	0.08°C	Active

Step results (n > 250)

Item	Measured	Specification	Result
Hold time	186s	188.51± 4.51s	✓✓✓
Max. undershoot	43.49°C	43.62± 2.18°C	✓✓✓
Avg. undershoot	44.01°C	44.75± 2.99°C	✓✓✓
Avg. heated lid	103.32°C	96.85± 32.49°C	✓✓✓

Accuracy results (n > 250)

Time	Measured	Specification	Result
15 s	50.33°C	50.28± 0.53°C	✓✓✓
10-20 s	50.33°C	50.25± 0.55°C	✓✓✓
30 s	50.09°C	50.03± 0.33°C	✓✓✓
25-35 s	50.09°C	50.03± 0.33°C	✓✓✓
90 s	50.04°C	49.98± 0.28°C	✓✓✓
85-95 s	50.04°C	49.98± 0.28°C	✓✓✓

Uniformity results (n > 250)

Time	Measured	Specification	Result
15 s	0.39°C	0.44± 0.63°C	✓✓✓
10-20 s	0.43°C	0.67± 0.81°C	✓✓✓
30 s	0.38°C	0.36± 0.36°C	✓✓✓
25-35 s	0.40°C	0.39± 0.40°C	✓✓✓
90 s	0.25°C	0.25± 0.26°C	✓✓✓
85-95 s	0.26°C	0.25± 0.26°C	✓✓✓

Legend

✓ = Pass ✗ = Fail ! = Excellent ? = No specifications

Testnumber 11021916-00680
 Temperature 70.0 °C
 Plateau start 12:18:38 (sample 1663)

Values after 30 seconds

	Measured	Deviation ($t_{90}-t$)	Status
— Sensor 1 (A1)	70.06°C	0.06°C	Active
— Sensor 2 (D1)	70.16°C	0.16°C	Active
— Sensor 3 (H1)	69.98°C	-0.02°C	Active
— Sensor 4 (A4)	70.13°C	0.13°C	Active
— Sensor 5 (E4)	70.18°C	0.18°C	Active
— Sensor 6 (H4)	70.01°C	0.01°C	Active
— Sensor 7 (A7)	70.20°C	0.20°C	Active
— Sensor 8 (D7)	70.23°C	(+) 0.23°C	Active
- - - - - Sensor 9 (H7)	70.03°C	0.03°C	Active
— Sensor 10 (A10)	70.13°C	0.13°C	Active
- - - - - Sensor 11 (E10)	70.18°C	0.18°C	Active
- - - - - Sensor 12 (H10)	70.03°C	0.03°C	Active
- - - - - Sensor 13 (A12)	70.19°C	0.19°C	Active
- - - - - Sensor 14 (D12)	70.21°C	0.21°C	Active
- - - - - Sensor 15 (H12)	69.97°C	(-) -0.03°C	Active

Step results (n > 250)

Item	Measured	Specification	Result
Hold time	185s	187.39± 2.91s	✓
Max. overshoot	76.30°C	76.35± 2.46°C	✓
Avg. overshoot	75.51°C	75.13± 2.93°C	✓
Avg. heated lid	103.55°C	96.44± 34.25°C	✓

Accuracy results (n > 250)

Time	Measured	Specification	Result
15 s	70.42°C	70.29± 0.36°C	✓
10-20 s	70.45°C	70.31± 0.35°C	✓
30 s	70.11°C	70.05± 0.30°C	✓
25-35 s	70.11°C	70.05± 0.30°C	✓
90 s	70.10°C	70.03± 0.31°C	✓
85-95 s	70.10°C	70.03± 0.31°C	✓

Uniformity results (n > 250)

Time	Measured	Specification	Result
15 s	0.47°C	0.51± 0.41°C	✓
10-20 s	0.92°C	0.91± 0.52°C	✓
30 s	0.27°C	0.37± 0.34°C	✓
25-35 s	0.30°C	0.43± 0.47°C	✓
90 s	0.23°C	0.31± 0.29°C	✓
85-95 s	0.24°C	0.32± 0.29°C	✓

Legend

✓ = Pass ✗ = Fail ! = Excellent ? = No specifications

Testnumber 11021916-00680
 Temperature 60.0 °C
 Plateau start 12:21:45 (sample 2038)

Values after 30 seconds

	Measured	Deviation ($t_{90}-t$)	Status
— Sensor 1 (A1)	60.11°C	0.11°C	Active
— Sensor 2 (D1)	60.07°C	0.07°C	Active
— Sensor 3 (H1)	59.99°C	(-) -0.01°C	Active
— Sensor 4 (A4)	60.16°C	0.16°C	Active
— Sensor 5 (E4)	60.07°C	0.07°C	Active
— Sensor 6 (H4)	60.03°C	0.03°C	Active
— Sensor 7 (A7)	60.22°C	(+) 0.22°C	Active
— Sensor 8 (D7)	60.11°C	0.11°C	Active
- - - - - Sensor 9 (H7)	60.03°C	0.03°C	Active
— Sensor 10 (A10)	60.12°C	0.12°C	Active
- - - - - Sensor 11 (E10)	60.01°C	0.01°C	Active
- - - - - Sensor 12 (H10)	60.00°C	0.00°C	Active
- - - - - Sensor 13 (A12)	60.19°C	0.19°C	Active
- - - - - Sensor 14 (D12)	60.11°C	0.11°C	Active
- - - - - Sensor 15 (H12)	60.00°C	0.00°C	Active

Step results (n > 250)

Item	Measured	Specification	Result
Hold time	185s	187.28± 2.71s	✓✓✓
Max. undershoot	53.85°C	53.86± 1.99°C	✓✓✓
Avg. undershoot	54.37°C	54.80± 2.44°C	✓✓✓
Avg. heated lid	103.42°C	96.42± 34.40°C	✓✓✓

Accuracy results (n > 250)

Time	Measured	Specification	Result
15 s	60.23°C	60.16± 0.38°C	✓✓✓
10-20 s	60.27°C	60.21± 0.40°C	✓✓✓
30 s	60.08°C	60.01± 0.32°C	✓✓✓
25-35 s	60.08°C	60.01± 0.32°C	✓✓✓
90 s	60.05°C	59.99± 0.29°C	✓✓✓
85-95 s	60.05°C	59.99± 0.29°C	✓✓✓

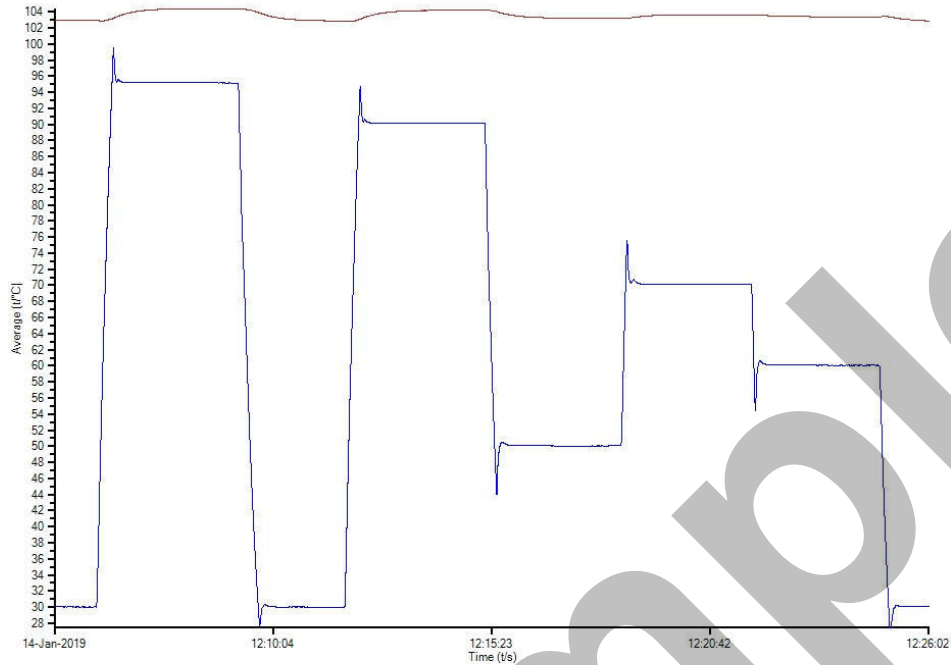
Uniformity results (n > 250)

Time	Measured	Specification	Result
15 s	0.22°C	0.26± 0.44°C	✓✓✓
10-20 s	0.28°C	0.36± 0.54°C	✓✓✓
30 s	0.23°C	0.26± 0.30°C	✓✓✓
25-35 s	0.24°C	0.27± 0.32°C	✓✓✓
90 s	0.18°C	0.24± 0.27°C	✓✓✓
85-95 s	0.19°C	0.25± 0.27°C	✓✓✓

Legend

✓ = Pass ✗ = Fail ! = Excellent ? = No specifications

Overview chart



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