

	Catatan Hasil Kalibrasi Internal	No. : F-PM-01-39
	<i>Internal Calibration Record</i>	Rev. : 00
	Thermohyrometer	Date : 3 September 2014

Merek :		Bidang :	
<i>Brand</i>		<i>Department</i>	
Model/Tipe :		Lokasi :	
<i>Model/Type</i>		<i>Location</i>	
Kode kalibrasi :		Suhu ruang :	
<i>Calibration code</i>		<i>Ambient temp.</i>	
Kapasitas :		Kelembaban :	
<i>Capacity</i>		<i>Humidity</i>	
Resolusi Suhu :	°C	Petugas :	
<i>Resolution of Temperature</i>		<i>Operator</i>	
Resolusi RH :	%RH	Tanggal kalibrasi :	
<i>Resolution of RH</i>		<i>Calibration date</i>	

Kalibrator yang digunakan	Kode	Tanggal kalibrasi Kalibrator
<i>Reference used</i>	<i>Code</i>	<i>Cal. date of Calibrator</i>

1. Pengukuran Suhu

Temperature measurement

A. Data

No.	T_{Std} T_{Reff} (°C)	$T_{Std} + \text{koreksi}$ $T_{Reff} + \text{Corr}$ (°C)	T_{Alat} $T_{Reading}$ (°C)	Koreksi Correction (°C)
1				
2				
3				
4				
5				
Rata-rata / Average				
σ_{n-1}				


Persamaan koreksi suhu standar : $y = 0,0006x^2 + 0,9705x + 0,0144$

Equation of reference temp. correction

B. Ketidakpastian Pengukuran Suhu

Uncertainty of Temperature measurement

No.	Sumber Ketidakpastian	Satuan	Distribusi	Nilai U_i	Pembagi	u_i	Koef., C_i	$u_i C_i$	V
No.	Source of Uncertainty	Unit	Distribution	U_i value	Divisor	u_i	Coeff., C_i	$u_i C_i$	V
1	Reproducibility, $U_{Rep} = \sigma_{n-1}$	°C	Normal		$\sqrt{5}$	0.0000	1	0.00000	4
2	Reference Temperature, $U_{Reff} = U_{sert.}$	°C	Normal		2	0.0000	1	0.00000	∞
3	Resolution of temp, $U_{Res} = \frac{1}{2} Res.$	°C	Persegil/ square		$\sqrt{3}$	0.0000	1	0.00000	∞
4	Temperature homogeneity, $U_{Unif} = \sigma_{n-1}$	°C	Normal		$\sqrt{5}$	0.0000	1	0.00000	4
5	Drift, $U_{Drift} = 10\% \times U_{95\%}$	°C	Persegil/ square		$\sqrt{3}$	0.0000	1	0.00000	∞
Ketidakpastian baku gabungan / Sum of Uncertainty, $u(D) = \text{SQRT}(\sum (u_i C_i)^2)$								0.000	
Derajat kebebasan efektif / Effective degree of freedom, V_{eff}								#DIV/0!	
Faktor cakupan pada tingkat kepercayaan 95 % / Coverage Factor on uncertainty 95%, $K_{95\%}$								2	
Ketidakpastian gabungan perluasan / Advanced Uncertainty, $U(D) = u(D) \times K_{95\%}$, dalam / in °C								0.00	

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2. Pengukuran RH
Humidity measurement

A. Data

No.	RH Standar <i>RH_{Reff}</i> (%RH)	RH Std+koreksi <i>RH_{Reff + Corr}</i> (%RH)	RH Alat <i>RH_{Reading}</i> (%RH)	Koreksi <i>Correction</i> (%RH)
1				
2				
3				
4				
5				
Rata-rata / Average				
σ_{n-1}				

Persamaan koreksi RH standar : $y = -0,0012x^2 + 1,1222x - 5,1468$
Equation of reference RH correction

B. Ketidakpastian Pengukuran RH
Uncertainty of Humidity measurement

No.	Sumber Ketidakpastian <i>Source of Uncertainty</i>	Satuan <i>Unit</i>	Distribusi <i>Distribution</i>	Nilai U_i <i>U_i value</i>	Pembagi <i>Divisor</i>	u_i <i>u_i</i>	Koef., C_i <i>Coeff., C_i</i>	$u_i C_i$ <i>u_i C_i</i>	V <i>V</i>
1	Reproducibility, $U_{Rep} = \sigma_{n-1}$	%RH	Normal		$\sqrt{5}$	0.0000	1	0.00000	4
2	Humidity reference, $U_{Reff} = U_{sert}$	%RH	Normal		2	0.0000	1	0.00000	∞
3	Resolution of RH $U_{Res} = \frac{1}{2} \text{Resolusi}$	%RH	Persegi/ square		$\sqrt{3}$	0.0000	1	0.00000	∞
4	Humidity homogeneity $U_{Unif} = \sigma_{n-1}$	%RH	Normal		$\sqrt{5}$	0.0000	1	0.00000	4
5	Drift, $U_{Drift} = 10\% \times U_{95\%}$	%RH	Persegi/ square		$\sqrt{3}$	0.0000	1	0.00000	∞
Ketidakpastian baku gabungan / <i>Sum of Uncertainty, $u(D) = \text{SQRT}(\sum u_i C_i)^2$</i>								0.000	
Derajat kebebasan efektif / <i>Effective degree of freedom, V_{eff}</i>								0.0E+00	
Faktor cakupan pada tingkat kepercayaan 95 % / <i>Coverage Factor on uncertainty 95% , $K_{95\%}$</i>								2	
Ketidakpastian gabungan perluasan / <i>Advanced Uncertainty, $U(D) = u(D) \times K_{95\%}$, dalam / in</i>								0.00	%RH

3. Hasil Kalibrasi
Calibration Results

Thermometer

No.	$T_{Standar}$ <i>T_{Reference}</i> (°C)	T_{Alat} <i>T_{Reading}</i> (°C)	Koreksi <i>Correction</i> (°C)	Ketidakpastian, $U_{95\%}$ <i>Uncertainty, U_{95%}</i> (°C)

Hygrometer

No.	RH _{Standar} <i>RH_{Reference}</i> (%RH)	RH _{Alat} <i>RH_{Reading}</i> (%RH)	Koreksi <i>Correction</i> (%RH)	Ketidakpastian, $U_{95\%}$ <i>Uncertainty, U_{95%}</i> (%RH)

Dihitung Oleh <i>Calculated by</i>	Tanggal <i>Date</i>	Diperiksa oleh <i>Checked by</i>	Tanggal <i>Date</i>	Catatan <i>Note</i>