INDOFARMA	**Catatan Hasil Kalibrasi Internal** *Internal Calibration Record* ***Thermohygrometer***	*No.* : F-PM-01-39 *Rev.* : 00 *Date* : 3 September 2014

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

Kalibrator yang digunakan *Reference used*	**Kode** *Code*	**Tanggal kalibrasi Kalibrator** *Cal. date of Calibrator*

1. Pengukuran Suhu

Temperature measurement

A. Data

No.	T_{Std} T_{Reff} (°C)	$T_{Std + koreksi}$ $T_{Reff + Corr}$ (°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. *No.*	Sumber Ketidakpastian *Source of Uncertainty*	Satuan *Unit*	Distribusi *Distribution*	Nilai U_t U_i *value*	Pembagi *Divisor*	u_i u_i	Koef.,Ci *Coeff.*, C_i	ui Ci $u_i C_i$	V *V*
1	*Reproducibility*, $U_{Rep} = \sigma_{n-1}$	°C	Normal		√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} = ½ *Res.*	°C	Persegi/ square		√3	0.0000	1	0.00000	∞
4	*Temperature homogeneity*, $U_{Unif} = \sigma_{n-1}$	°C	Normal		√5	0.0000	1	0.00000	4
5	*Drift*, U_{Drift} =10%x$U_{95\%}$	°C	Persegi/ square		√3	0.0000	1	0.00000	∞
Ketidakpastian baku gabungan / *Sum of Uncertainty* , $u(D) = SQRT(\sum (u_i C_i)^2)$								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 *RH Reff* (%RH)	RH Std+koreksi *RH Reff + Corr* (%RH)	RH Alat *RH Reading* (%RH)	Koreksi *Correction* (%RH)
1				
2				
3				
4				
5				
Rata-rata / Average				
σ_{n-1}				

Persamaan koreksi RH standar : y = -0,0012x2 + 1,1222x - 5,1468

Equation of reference RH correction

B. Ketidakpastian Pengukuran RH

Uncertainty of Humidity measurement

No. *No.*	Sumber Ketidakpastian *Source of Uncertainty*	Satuan *Unit*	Distribusi *Distribution*	Nilai U_t U_t *value*	Pembagi *Divisor*	u_i u_i	Koef.,Ci *Coeff.,* C_i	ui Ci $u_i\ C_i$	V *V*
1	*Reproducibility,* $U_{Rep} = \sigma_{n-1}$	%RH	Normal		√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} *=½Resolusi*	%RH	Persegi/ square		√3	0.0000	1	0.00000	∞
4	*Humidity homogeneity* $U_{Unif} = \sigma_{n-1}$	%RH	Normal		√5	0.0000	1	0.00000	4
5	*Drift,* $U_{Drift} = 10\% x U_{95\%}$	%RH	Persegi/ square		√3	0.0000	1	0.00000	∞
Ketidakpastian baku gabungan / *Sum of Uncertainty* , $u(D) = SQRT(\sum (u_i C_i)^2)$								0.000	
Derajat kebebasan efektif / *Effective degree of freedom* , V_{eff}								0.0E+00	
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* **%RH**								**0.00**	

3. Hasil Kalibrasi

Calibration Results

Thermometer

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

Hygrometer

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

Dihitung Oleh *Calculated by*	Tanggal *Date*	Diperiksa oleh *Checked by*	Tanggal *Date*	Catatan *Note*