

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

2. Pengukuran RH

Humidity measurement

A. Data

No.	RH Standar RH _{Ref} (%RH)	RH Std+koreksi RH _{Ref} + 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 : $y = -0,0012x^2 + 1,1222x - 5,1468$

Equation of reference RH correction

B. Ketidakpastian Pengukuran RH

Uncertainty of Humidity measurement

No.	Sumber Ketidakpastian Source of Uncertainty	Satuan Unit	Distribusi Distribution	Nilai U_i U_i value	Pembagi Divisor	u_i u_i	Koef., C_i Coeff., C_i	$u_i C_i$ $u_i C_i$	V
1	Reproducibility, $U_{Rep} = \sigma_{n-1}$	%RH	Normal		$\sqrt{5}$	0.0000	1	0.00000	4
2	Humidity reference, $U_{Ref} = U_{sert}$	%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 / Sum of Uncertainty, $u(D) = \text{SQRT}(\sum (u_i C_i)^2)$								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