

## Visomes Comercial Metrológica Ltda.





# LABORATÓRIO DE METROLOGIA VISOMES RELATÓRIO DE ENSAIO N° LV02172-39349-19-R0

INTERESSADO: ER Analítica Ltda. - EPP

CONTRATANTE: ER Analítica Ltda. - EPP

R. Itaici, 130 - Jardim Itajai - Várzea Paulista - SP - CEP: 13224-250

### DADOS DO EQUIPAMENTO E CONDIÇÕES DO ENSAIO

MATERIAL ENSAIADO: BANHO TERMOSTÁTICO COM INDICAÇÃO DIGITAL

MARCA: ACB Labor

MODELO: Não Identificado

ESCALA: 0 a 90 °C

RESOLUÇÃO: 0,1 °C

TIPO DE SENSOR: Termorresistência

TIPO DE CIRCULAÇÃO: FORÇADA

THE DE CHARGE NAME OF THE PARTY OF THE PARTY

MARCA DO CONTROLADOR: Novus

LOCAL DO ENSAIO: Laboratório de Calibração

Nº CONTROLE: H001A03BM

Nº SÉRIE: Não Identificado

DATA DO ENSAIO: 27/12/19

N° ORDEM DE SERVIÇO: 02172-06846/2019

CONDIÇÃO AMBIENTAL: 25 °C ± 1 °C e 54 %UR ± 5 %UR

DIMENSÕES INTERNAS: A = 90 / L = 240 / P = 300 mm

TIPO DE CONTROLE: Microprocessado

#### PADRÕES UTILIZADOS

CÓDIGO

<u>DESCRIÇÃO</u>

relatório

VALIDADE

RASTREABILIDADE

PV-220-G

Multimetro Digital

RBC 19/1715

out-20

SI-RBC

PV-711-0

Termômetro Digital

I V00017-023194-19-Fset-20

SI - RBC

#### MÉTODO DE ENSAIO

O equipamento foi medido, utilizando-se 9 sensores distribuídos internamente conforme foto.

O posicionamento dos sensores utilizados esta descrito junto aos resultados.

O valor expresso como média da temperatura considera todos os sensores após a estabilização.

Para este ensaio, foi utilizada a Instrução de Trabalho: ILV-204

RESOLUÇÃO ANVISA RDC 17 DE 16 DE ABRIL DE 2010 - título V 'validação' - capítulo VII - art. 486 a 488, Capítulo VIII - art. 489 e 490 e Capítulo IX - art. 498 seção II,III e IV.

#### NOTAS E INFORMAÇÕES PERTINENTES

- 1 A incerteza expandida de medição relatada (U) é declarada como a incerteza padrão de medição multiplicada pelo fator de abrangência k. O qual para uma distribuição t, com graus de liberdade efetivos relatados (veff), corresponde a uma probabilidade de abrangência de aproximadamente 95%. A incerteza padrão da medição foi determinada de acordo com a publicação EA-4/02.
- 2 Este certificado atende aos requisitos de acreditação pela Cgcre que avaliou a competência do laboratório e comprovou sua rastreabilidade ao Sistema Internacional de Unidades SI e aos requisitos da Norma ABNT NBR ISO/IEC 17025. A Cgcre é signatária do Acordo de Reconhecimento Mútuo da ILAC.
- 3 Os relatórios de Calibração digitais possuem uma forma de assinatura eletrônica de uma instituição reconhecida por todos como confiável que funciona como "cartório eletrônico". Os métodos criptográficos empregados impedem que a assinatura eletrônica seja falsificada, ou que os dados do documento sejam adulterados ou copiados, tornando-o absolutamente inviolável. Garante-se assim, por quem assina, que os dados de identificação do relatório são verdadeiros. Estes quando alterados perdem a validade. A certificação digital garante os três princípios básicos da comunicação segura em ambiente de rede de computadores; autenticidade, privacidade e inviolabilidade. Este relatório, se impresso pela Visomes, para garantir a originalidade, deve estar chancelado.
- 4 Os valores de temperatura apresentados estão em conformidade com a Escala Internacional de Temperatura de 1990.
- 5 O presente relatório refere-se exclusivamente ao material ensaiado.
- 6 É proibida a reprodução parcial deste relatório.

7 - Fatores de ajuste do controlador:

Pb: 1.0

Ir: 0.15

8 - Valor de Referência = Média das Leituras (equipamento em calibração) - Erro

9 - Serviço realizado nas instalações do cliente.

10 - Parâmetros programados no controlador de temperatura Pb=1.0, lr=0.15, dt=28, Ct=2.0 e OFFS=-0.7.

١	*APROVADO
	Responsável: RENATO
	Padrão: HOOI A 03 BM
	Data: 14/01/2020
)	Valid205911 27 12/2021

R. Joaquim dos Santos, 181 - Rio Bonito - São Paulo - SP - CEP 04823-080 - F.: (11









#### **RESULTADOS OBTIDOS**

#### RESULTADO OBTIDO POR SENSOR (°C)

Identificação	Localização	Média	Máximo	Mínimo	Variação
01	Anterior Superior Esquerdo	25,0	25,0	24,9	0,1
02	Posterior Superior Esquerdo	25,0	25,1	24,9	0,2
03	Posterior Superior Direito	25,0	25,1	24,9	0,2
04	Anterior Superior Direito	25,0	25,0	24,9	0,1
05	Anterior Inferior Esquerdo	25,0	25,1	24,9	0,2
06	Posterior Inferior Esquerdo	24,9	25,1	24,9	0,2
07	Posterior Inferior Direito	25,0	25,0	24,9	0,1
80	Anterior Inferior Direito	25,0	25,0	24,9	0,1
09	Centro Volumétrico	25,0	25,0	24,9	0,1

#### RESULTADO DO ENSAIO (°C)

PARÂMETRO	VALOR	U	k	veff
Homogeneidade, no período de estabilidade, diferença entre o máximo e mínimo (±°C):	0,1	0,2	2,00	>1000
Estabilidade no sensor central (±°C):	0,1	0,2	2,00	>1000
Temperatura Ajustada: Temperatura média após a estabilização: Tendência de medição da temperatura de controle:	25,0 25,0 0,0	0,2	2,00	>1000
Incerteza de medição do conjunto registrador + sen	sores:	0,1	2,00	>1000

#### GRÁFICO DOS RESULTADOS OBTIDOS (°C)



APROVADO

Responsável: RENGO

MÍNIMO

Padrão: HOOI AO3BM

Data: 14/01/20206

Validade: 27/12/2021

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		ADOS (	OBTIDO	SNOS	SENSO	RES UT	ILIZADO	S NOS	CÁLCUI	LOS (°C)
	S 01	S 02	S 03	S 04	S 05	S 06	S 07	S 08	S 09	
13:56		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:56		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:56		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:56		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:57	100	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:57	3.5	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:57		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:57		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:57		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:57		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:58		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:58		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:58		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:58		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:58		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:58		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:59		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:59 13:59	110	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:59			25,1	25,0	25,0	24,9	25,0	25,0	25,0	
13:59		25,0		25,0	25,0	24,9	25,0	25,0	25,0	
13:59		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:00		25,0	25,1				25,0	25,0	25,0	
14:00		25,0	25,1	25,0	25,0	24,9				
14:00		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:00		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:00		25,1	25,1	25,0	25,1	24,9	25,0	25,0	25,0	
14:00		25,1	25,1	25,0	25,1	24,9	25,0	25,0	25,0	
14:01		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:01		25,1	25,1	25,0	25,1	25,1	25,0	25,0	25,0	
14:01		25,1	25,1	25,0	25,1	24,9	25,0	25,0	25,0	
14:01		25,1	25,1	25,0	25,1	24,9	25,0	25,0	25,0	
14:01		25,1	25,1	25,0	25,1	24,9	25,0	25,0	25,0	
14:01		25,1	25,1	25,0	25,1	24,9	25,0	25,0	25,0	
14:02		25,1	25,1	25,0	25,1	25,1	25,0	25,0	25,0	
14:02		25,1	25,1	25,0	25,1	24,9	25,0	25,0	25,0	
14:02		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:02		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:02		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:02		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:03		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:03		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	APROVADO
14:03		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:03		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Responsável: RENATO  Padrão: 4001 A03 BM  Data: 14/01 /2020  Validade: 27/12/2021
14:03		25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Responsavel: KENPTU
14:03	25,0	25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	102 201
14:04	25,0	25,1	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Padrão: HOOT AUS DIT
14:04	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	A CONTRACTOR OF THE PARTY OF TH
14:04	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Data: 14/01 (2020)
14:04		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	1-2 /2-1
14:04		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Walidade: 27/12/2021
14:04		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	1
14:05		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	The state of the s
14:05		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:05		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:05		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:05		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:05		25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	7









		DADOS	OBTIDO	S NOS	SENSO	RES UT	ILIZADO	S NOS	CÁLCU	LOS (°C)
	S 0°	1 5 02	S 03	S 04	S 05	S 06	S 07	S 08	S 09	
14:	06 25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:	06 25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:	06 25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:	06 25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:	06 25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:			25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:	07 25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:			24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:			24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:			25,1	25,0	25,0	24,9	25,0	25,0	25,0	
14:			24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:			24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:			24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:			24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:	1,7		24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:			24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:			24,9	24,9	24,9	24,9	25,0	24,9	24,9	
14:			24,9	24,9	24,9	24,9	25,0	24,9	24,9	
14:			24,9	24,9	24,9	24,9	24,9	24,9	24,9	
14:	09 24,9		24,9	24,9	24,9	24,9	25,0	24,9	24,9	
14:			24,9	24,9	24,9	24,9	25,0	24,9	24,9	
14:			24,9	25,0	25,0	24,9	24,9	25,0	25,0	
14:			24,9	25,0	25,0	24,9	25,0	25,0	25,0	
14:	10 24,		24,9	25,0	25,0	24,9	25,0	24,9	25,0	
14:	10 24,		24,9	24,9	25,0	24,9	24,9	24,9	24,9	
14:	10 25,0		24,9	24,9	25,0	24,9	24,9	25,0	24,9	
14:			24,9	24,9	24,9	24,9	24,9	24,9	24,9	
14:			24,9	24,9	24,9	24,9	25,0	24,9	24,9	
14:			24,9	24,9	24,9	24,9	25,0	24,9	24,9	
14:			24,9	24,9	24,9	24,9	25,0	24,9	24,9	
14:			24,9	24,9	24,9	24,9	24,9	24,9	24,9	
14:			24,9	24,9	24,9	24,9	24,9	24,9	24,9	
14:			24,9	24,9	24,9	24,9	24,9	24,9	24,9	
14:		(**)	24,9	24,9	24,9	24,9	24,9	24,9	24,9	
14:				24,9	24,9	24,9	24,9	24,9	24,9	
14:			24,9	24,9	24,9	24,9	24,9	24,9	24,9	-
14:				24,9	24,9	24,9	24,9	24,9	24,9	Responsável: RENATO Padrão: HOO1 403 BM
14:				24,9	24,9	24,9	24,9	24,9	24,9	APROVADO
14:		[1] · · · · · · · · · · · · · · · · · · ·		24,9	24,9	24,9	24,9	24,9	24,9	
14:				24,9	24,9	24,9	24,9	24,9	24,9	Responsavel: KENATO
1 10.00	:12 24,			24,9	24,9	24,9	24,9	24,9	24,9	11 - 1000
7.00.00	:13 24,			24,9	24,9	24,9	25,0	24,9	24,9	Padrão: HOO1 403 BM
14:				24,9	24,9	24,9	24,9	24,9	24,9	101
	:13 24,			24,9	24,9	24,9	24,9	24,9	24,9	Data: 14/01/2020 Validade: 27/12/2021
	:13 24,			24,9	24,9	24,9	25,0	24,9	24,9	22/12/2221
	:13 24,			24,9	24,9	24,9	25,0	24,9 24,9	24,9 24,9	Validade: 2+11212021
	:13 24,			24,9	25,0	24,9	25,0			
	:14 24,			24,9	24,9	24,9	25,0	24,9	24,9	Lawrence and the second
	:14 25,			25,0	25,0	24,9	25,0	25,0	25,0	
	:14 25,	55		25,0	25,0	24,9	25,0	25,0 25,0	25,0 24,9	
4 8 8	:14 25,			24,9	25,0	24,9	25,0			
	:14 25,			24,9	25,0	24,9	25,0	25,0 24,9	24,9 24,9	
	:14 24,			24,9	25,0	24,9	24,9			
	:15 25,			25,0	25,0	24,9	25,0	25,0 24,9	25,0 24,9	
	:15 24,			24,9	25,0 25,0	24,9 24,9	25,0 25,0	24,9	24,9	
	:15 24,			24,9 24,9	25,0	24,9	25,0	24,9	24,9	7
14	:15 24,	9 25,0	24,9	24,9	25,0	24,8	23,0	24,5	24,5	









DADOS OBTIDOS NOS SENSORES UTILIZADOS NOS CÁLCULOS (°C)												
	S 01	S 02	S 03	S 04	S 05	S 06	S 07	S 08	S 09			
14:15	24,9	25,0	24,9	24,9	25,0	24,9	25,0	24,9	24,9			
14:15	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:16	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:16	24,9	25,0	24,9	24,9	25,0	24,9	25,0	24,9	24,9			
14:16	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:16	24,9	25,0	24,9	24,9	24,9	24,9	25,0	24,9	24,9			
14:16	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:16	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:17	25,0	25,0	24,9	24,9	25,0	24,9	25,0	25,0	24,9			
14:17	25,0	25,0	24,9	24,9	25,0	24,9	25,0	25,0	24,9			
14:17	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:17	25,0	25,0	24,9	25.0	25,0	24,9	25,0	25,0	25,0			
14:17	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:17	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:18	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:18	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:18	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:18	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:18	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:18								25,0	25,0			
14:19	25,0	25,0	25,1	25,0	25,0	24,9	25,0					
14:19	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	1		
14:19	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:19	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:19	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:19	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:20	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:20	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:20	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:20	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:20	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:21	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:21	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:21	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:21	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:21	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:21	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:22	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:22	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:22	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:22	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:22	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:22	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	APROVADO		
14:23	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	ATROVADO		
14:23	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	1. P		
14:23	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Responsavel:		
14:23	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	1100110701		
14:23	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Padrão: HOO I AOS BIN		
14:23	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Responsável: RENANO Padrão: HOOI AO3 BM Data: 14/01/2020		
14:24	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Data: 14 101 12020		
14:24	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:24	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0	Validade: 27/12/2021		
14:24	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:24	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	The state of the s		
14:24	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:25	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:25	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0	7		
14.25	20,0	20,0	24,0	20,0	20,0	۵,0	20,0	20,0	20,0			









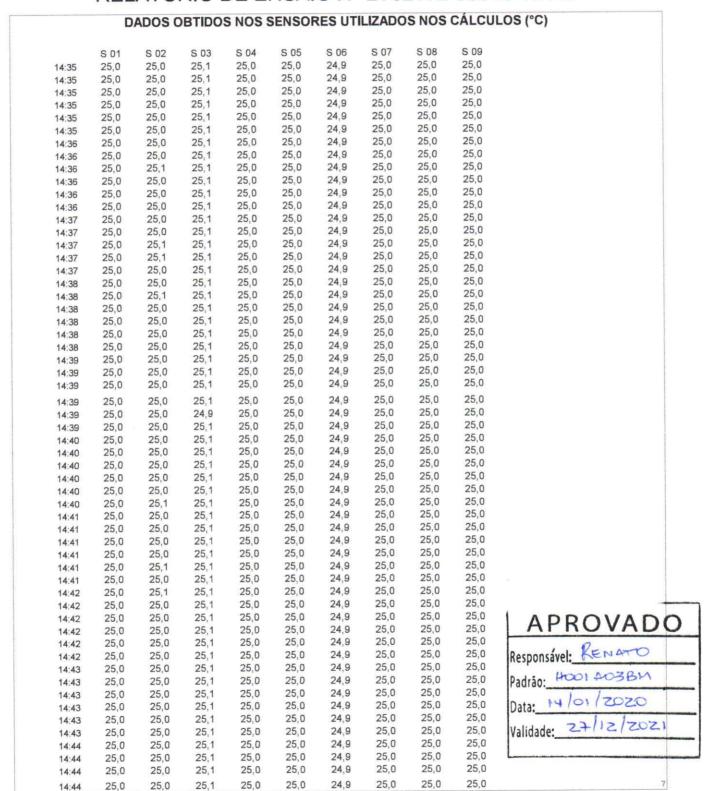
DADOS OBTIDOS NOS SENSORES UTILIZADOS NOS CÁLCULOS (°C)												
	S 01	S 02	S 03	S 04	S 05	S 06	S 07	S 08	S 09			
14:25	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:25	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:25	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:25	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:26	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:26	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:26	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:26	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:26	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	1		
14:26	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:27	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:27	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:27	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:27	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:27	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:27	25,0	25,0	24,9	25,0	25,0	24,9	24,9	25,0	25,0			
14:28	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:28	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:28	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:28	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:28	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:28	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:29	25,0	25,0	24,9	25,0	25,0	24.9	25,0	25,0	25,0			
14:29	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:29	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
		25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:29	25,0			25,0	25,0	24,9	25,0	25,0	25,0			
14:29	25,0	25,0	24,9 24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:29	25,0	25,0			25,0	24,9	25,0	25,0	25,0			
14:30	25,0	25,0	24,9	25,0		24,9	25,0	25,0	25,0			
14:30	25,0	25,0	24,9	25,0	25,0 25,0	24,9		25,0	25,0			
14:30	25,0	25,0	24,9	25,0			25,0		25,0			
14:30	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0				
14:30	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:31	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:31	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:31	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:31	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:31	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:31	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:32	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:32	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:32	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:32	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	APROVADO		
14:32	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	APROVADO		
14:32	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	1 P		
14:33	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Responsavel: KE - Arc		
14:33	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:33	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0	Responsável: REHAMO Padrão: HOOI AOBEM Data: 14/01/2020		
14:33	25,0	25,0	24,9	25,0	25,0	24,9	25,0	25,0	25,0			
14:33	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Data: 14/01/2020		
14:33	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Validade: 27/12/2021		
14:34	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	Validade: 27   12   2021		
14:34	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:34	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	The state of the s		
14:34	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:34	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0			
14:34	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0	7		



## Visomes Comercial Metrológica Ltda.















S DADOS OBTIDOS NOS SENSORES UTILIZADOS NOS CÁLCULOS (°C)    1444						0 1100	2511001	DEO 117		2011.00	OÁL OU	1.05 (90)
14.44			D	ADOS C	BIIDO	SNOS	SENSU	RES UT	ILIZADO	15 NOS	CALCU	LOS (°C)
14.44			S 01	S 02	S 03	S 04	S 05	S 06	S 07	S 08	S 09	
14-44 25.0 25.0 25.0 25.1 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 25.0 14.45 25.0 25.0 25.1 25.0 25.0 25.0 25.0 25.0 25.0 25.0 14.45 25.0 25.0 25.1 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 14.45 25.0 25.0 25.0 25.1 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 14.45 25.0 25.0 25.0 25.1 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 14.45 25.0 25.0 25.0 25.1 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 14.45 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 25.0 14.47 25.0 25.0 25.0 25.1 25.0 25.0 25.0 25.0 25.0 25.0 14.47 25.0 25.0 25.1 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.47 25.0 25.0 25.1 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.47 25.0 25.0 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.47 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.47 25.0 25.0 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.47 25.0 25.0 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.47 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0		14-44										
1445 25,0 25,0 25,1 25,0 25,1 25,0 25,0 24,9 25,0 25,0 25,0 25,0 25,0 1445 25,0 25,0 25,1 25,0 25,0 25,0 25,0 25,0 25,0 1445 25,0 25,0 25,1 25,0 25,0 25,0 25,0 25,0 25,0 25,0 1445 25,0 25,0 25,0 25,1 25,0 25,0 25,0 24,9 25,0 25,0 25,0 25,0 25,0 1445 25,0 25,0 25,0 25,0 25,0 25,0 25,0 25,			The state of the state of	0.000								
1446 25,0 25,0 25,1 25,0 25,1 25,0 25,0 24,9 25,0 25,0 25,0 25,0 25,0 14,46 25,0 25,0 25,1 25,0 25,0 25,0 25,0 25,0 25,0 25,0 25,0												
14.45 25.0 25.0 25.0 25.1 25.0 25.0 24.9 25.0 25.0 25.0 25.0 1.44.6 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0			- 1									
1445 250 250 250 251 250 250 249 250 250 250 250 250 250 1446 250 250 250 250 250 250 250 250 250 250												
1445 25.0 25.0 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 25.0 25.0 14.46 25.0 25.0 25.0 25.0 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 14.46 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 14.47 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 25.0 14.47 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 14.47 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 14.47 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 14.47 25.0 25.0 24.9 25.0 25.0 24.9 25.0 25.0 14.47 25.0 25.0 24.9 25.0 24.9 25.0 25.0 25.0 14.47 25.0 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 14.47 25.0 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 14.47 25.0 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 14.47 24.9 25.0 24.9 25.0 24.9 25.0 25.0 14.47 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 14.47 24.9 25.0 24.9 25.0 24.9 25.0 25.0 14.47 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 14.48 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 24.9 14.48 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 24.9 25.0 14.48 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 24.9 24.9 14.48 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 14.48 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 24.9 24.9 25.0 25.0 25.0 14.48 25.0 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 25.0 14.48 25.0 25.0 25.0 24.9 25.0 24.9 25.0 25.0 25.0 14.48 25.0 25.0 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 25.0 14.49 25.0 25.0 25.0 25.0 14.49 25.0 25.0 24.9 25.0 24.9 25.0 25.0 25.0 14.49 25.0 25.0 24.9 25.0 24.9 25.0 24.9 25.0 25.0 25.0 14.49 25.0 25.0 24.9 25.0 24.9 25.0 25.0 25.0 25.0 14.49 25.0 25.0 24.9 25.0 24.9 25.0 25.0 25.0 25.0 24.9												
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14:56	25,0	25,0	25,1	25,0	25,0	24,9	25,0	25,0	25,0

Responsável: RENAMO
Padrão: HOOI AO3 BM
Data: 14/01/2020
Validade: Z7/12/2021

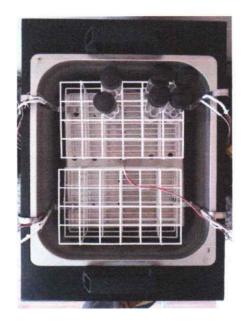








#### FOTO DO EQUIPAMENTO EM ENSAIO





FINAL DO RELATÓRIO Nº LV02172-39349-19-R0 -----

**RESPONSÁVEL PELA EMISSÃO** 

APROVADO

Responsável: RENATO

Padrão: HOOI AO3BM

Data: 14 (01 /2020

Validade: 27 12 /2021

FÁBIO PEREIRA BARROS SIGNATÁRIO AUTORIZADO TÉCNICO EM METROLOGIA