



Certificate No. : LA-2011-0485-C

Issue No. : 2

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| MEASURED QUANTITIES/<br>INSTRUMENTS / RANGE TO BE<br>CALIBRATED   | METHOD OF<br>CALIBRATION                  | CALIBRATION AND<br>MEASUREMENT CAPABILITY<br>EXPRESSED AS AN<br>UNCERTAINTY ( * )  |
|---|---|--|
| <p>- Relative Humidity<br/>(Chilled mirror hygrometer with air<br/>Temperature probe)</p> <p><u>Range of Measurement</u></p> <p>a. At -10 °C<br/>(10 to 30) %r.h.<br/>(30 to 50) %r.h.<br/>(50 to 70) %r.h.<br/>(70 to 95) %r.h.</p> <p>b. At 0 °C<br/>(10 to 30) %r.h.<br/>(30 to 50) %r.h.<br/>(50 to 70) %r.h.<br/>(70 to 95) %r.h.</p> <p>c. At 23 °C<br/>(10 to 30) %r.h.<br/>(30 to 50) %r.h.<br/>(50 to 70) %r.h.<br/>(70 to 95) %r.h.</p> <p>d. At 50 °C<br/>(10 to 30) %r.h.<br/>(30 to 50) %r.h.<br/>(50 to 70) %r.h.<br/>(70 to 95) %r.h.</p> <p>e. At 70 °C<br/>(10 to 30) %r.h.<br/>(30 to 50) %r.h.<br/>(50 to 70) %r.h.<br/>(70 to 95) %r.h.</p> | <p>In-house Procedure<br/>CP-N, Rev 3</p> | <p>Corresponding to above dew-point<br/>and temperature uncertainties</p> <p>(0.2 to 0.5) %r.h.<br/>(0.5 to 0.8) %r.h.<br/>(0.8 to 1.1) %r.h.<br/>(1.1 to 1.2) %r.h.</p> <p>(0.2 to 0.4) %r.h.<br/>(0.4 to 0.6) %r.h.<br/>(0.6 to 0.8) %r.h.<br/>(0.8 to 1.0) %r.h.</p> <p>(0.2 to 0.3) %r.h.<br/>(0.3 to 0.5) %r.h.<br/>(0.5 to 0.7) %r.h.<br/>(0.7 to 0.8) %r.h.</p> <p>(0.2 to 0.3) %r.h.<br/>(0.3 to 0.4) %r.h.<br/>(0.4 to 0.5) %r.h.<br/>(0.5 to 0.7) %r.h.</p> <p>(0.2 to 0.3) %r.h.<br/>(0.3 to 0.4) %r.h.<br/>(0.4 to 0.5) %r.h.<br/>(0.5 to 0.6) %r.h.</p> |

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|--|---|---|
| <p>- Relative Humidity Sensor/<br/>Instrument</p> <p>- Thermo-hygrometer</p> <p><u>Range of Measurement</u></p> <p>a. At -10 °C</p> <p>(10 to 30) %r.h.</p> <p>(30 to 50) %r.h.</p> <p>(50 to 70) %r.h.</p> <p>(70 to 95) %r.h.</p> <p>b. At 0 °C</p> <p>(10 to 30) %r.h.</p> <p>(30 to 50) %r.h.</p> <p>(50 to 70) %r.h.</p> <p>(70 to 95) %r.h.</p> <p>c. At 23 °C</p> <p>(10 to 30) %r.h.</p> <p>(30 to 50) %r.h.</p> <p>(50 to 70) %r.h.</p> <p>(70 to 95) %r.h.</p> <p>d. At 50 °C</p> <p>(10 to 30) %r.h.</p> <p>(30 to 50) %r.h.</p> <p>(50 to 70) %r.h.</p> <p>(70 to 95) %r.h.</p> <p>e. At 70 °C</p> <p>(10 to 30) %r.h.</p> <p>(30 to 50) %r.h.</p> <p>(50 to 70) %r.h.</p> <p>(70 to 95) %r.h.</p> | <p>In-house Procedure<br/>CP-N, Rev 3</p> | <p>(0.3 to 0.9) %r.h.</p> <p>(0.9 to 1.1) %r.h.</p> <p>(1.1 to 1.2) %r.h.</p> <p>(1.2 to 1.3) %r.h.</p> <p>(0.3 to 0.9) %r.h.</p> <p>(0.9 to 1.0) %r.h.</p> <p>(1.0 to 1.2) %r.h.</p> <p>(1.2 to 1.3) %r.h.</p> <p>(0.3 to 0.8) %r.h.</p> <p>(0.8 to 1.0) %r.h.</p> <p>(1.0 to 1.1) %r.h.</p> <p>(1.1 to 1.2) %r.h.</p> <p>(0.3 to 0.7) %r.h.</p> <p>(0.7 to 1.0) %r.h.</p> <p>(1.0 to 1.1) %r.h.</p> <p>(1.1 to 1.2) %r.h.</p> <p>(0.3 to 0.6) %r.h.</p> <p>(0.6 to 0.9) %r.h.</p> <p>(0.9 to 1.0) %r.h.</p> <p>(1.0 to 1.1) %r.h.</p> |

