

|           |   |                     |                 |
|-----------|---|---------------------|-----------------|
| Reference | Fluke                                   | Calibration date    | July 06 2019    |
| Ref P/N   | 5720A/H1                                | Ambient Temperature | 23.43 °C        |
| Serial    | 102                                     | Relative Humidity   | 24.54 %         |
| ID Number | XFER 752A 1:10;                         | Pressure            | 999.91 hPa      |
| Notes     | Test DCV via 752A, CHA/CHB spade cables | Test type           | Automatic ratio |

| Reference standard | Mfg    | Model    | Options        | Serial / Unc | CEID | Calibration date | Due date   |
|--------------------|--------|----------|----------------|--------------|------|------------------|------------|
| REF                | Fluke  | 5720A/H1 | 10 VDC         | N/A          | N/A  | 06/16/2019       | 12/16/2019 |
| DMM                | Datron | 1281     | 10,20,30,70,80 | 19620-4      | XD8  | 06/06/2019       | 12/06/2019 |

xDevs.com certifies that this calibration used standards whose accuracies are traceable to the SI, through National Measurement Laboratory. Actual measurement uncertainty available upon request was calculated using the expanded method and is expressed in values at approximately the 95% confidence level using a coverage factor of K= 2.

Certificate statements are based on test results within specified limits without reduction of the uncertainty of the test and/or measurement. The test and measurement data here relate only to the item tested and/or measured. Unit acceptance of failure includes uncertainty data compilation. Calibration due date that appears on the Certificate of Calibration and labels are determined by the customer and does not imply conformance to a standard.

UUT output transferred by manual ratiometric measurement with reference standard. Fixed 1.000e+01 range is used on the Datron 1281 detector. The following test use 10 minute transfer specification with Fluke 5720A/H1 output source as reference. Gain verified for stability ±0.10 ppm over the test period. Detector zero offset is DUT is nulled prior to the measurement.

Configuration : RESL8, FILT\_OFF, FAST\_OFF, REMG ON.

|                                     | Measurement       | Unit       | Uncertainty       | Standard Deviation          | DUT Spec / Δ         | Degree of freedom / Notes |
|-------------------------------------|-------------------|------------|-------------------|-----------------------------|----------------------|---------------------------|
| <b>Transfer reference output</b>    | <b>10.0000100</b> | <b>VDC</b> | <b>±1.600 ppm</b> |                             |                      |                           |
| Reference measured output (+)       | 10.0000115        | VDC        | ±0.250 ppm        | $\sigma = 7.666262e-07$ VDC | $\Delta = 0.150$ ppm | 500                       |
| Reference calculated +/-            | 10.0000115        | VDC        | ±0.250 ppm        |                             | $\Delta = 0.150$ ppm |                           |
| Detector zero offset                | 0.0000000         | VDC        |                   | $\sigma = 1.000000e-09$ VDC |                      |                           |
| UUT measured output (+)             | 1.0000012         | VDC        | ±2.050 ppm        | $\sigma = 3.786574e-07$ VDC |                      | 500                       |
| Ratio positive polarity             | 0.1000000         |            | ±2.300 ppm        |                             |                      | Inf                       |
| UUT calculated output (+)           | 1.0000010         | VDC        | ±3.900 ppm        |                             | $\Delta = 0.000$ ppm |                           |
| Temperature Δ                       | 1.230             | °C         | ±1.00 %           |                             | ±1.0 °C              |                           |
| UUT previous data                   | 1.0000010         | VDC        | ±1.800 ppm        |                             |                      | Report                    |
| Deviation from previous             | 0.050 ppm         | VDC        | ±3.330 ppm        |                             |                      |                           |
| <b>UUT transfer result (Linear)</b> | <b>1.0000010</b>  | <b>VDC</b> | <b>±3.900 ppm</b> |                             | 0.1%                 | In spec                   |
| <b>UUT transfer result (RSS)</b>    | <b>1.0000010</b>  | <b>VDC</b> | <b>±2.802 ppm</b> |                             | 0.1%                 | In spec                   |

Statistics image data



