

ILLIANA INSTRUMENTATION

1831 Govert Drive Schererville, IN 46375 Phone (219)227-8788 Fax (219)515-6161

CERTIFICATE OF CALIBRATION

| CUSTOMER: | MISCELLANEOUS DETAILS: |
|--|---|
| Illiana Instrumentation 1831 Govert Drive Schererville, IN 46375 | Date Received 7/4/19 Certification Date: 7/4/19 Recalibration Date: 10/4/19 Cal. Number: 1531-070419 P.O. Number: Location of Calibration: Lab Detailed Results Attached: YES Procedure Used: WI-527 |

| EQUIPMENT CALIBRATED |
|---|
| MANUFACTURER: Honeywell Inc. |
| MODEL: TVMUSX-88800-240-22-2-030-0U000-000 |
| SERIAL NUMBER: 1126Y192349500001 |
| ITEM NUMBER: 1531 |
| DESCRIPTION: Video Recorder |
| CONDITION AS FOUND: Good, unless otherwise noted on reports |

| STANDARDS USED/UNCERTAINTIES |
|---|
| Item 1546 Fluke 525B |
| |
| BEST MEASUREMENT UNCERTAINTY: The expanded (k=2) measurement uncertainty for this test is 1.2 Deg. F. |
| |
| |

| TEST CONDITIONS |
|-----------------------|
| TEMPERATURE 75 Deg F. |
| HUMIDITY 36% rH |

CERTIFIED BY: Paul Krolla TITLE: ISA CCST III DATE 7/4/19
 APPROVED BY: Laura Grobe TITLE: Deputy Quality Mgr. DATE 7/4/19

This certifies that the above equipment was calibrated using appropriate Illiana Instrumentation technical procedures. At planned intervals, Illiana Instrumentation standards are calibrated by comparison to or measurement against standards which are traceable to the SI units through the NIST or other recognized national measurement institutes or international standard bodies. The results in this report relate only to the item(s) calibrated. If so indicated above, detailed calibration results are attached to this certificate. These results are part of this certificate and this certificate shall not be reproduced except in full, without the written approval of Illiana Instrumentation. Any number of factors not under the control of the calibration laboratory may cause the calibration of the above item(s) to drift before the recommended recalibration date. Supporting documentation relative to traceability and technical procedures used is on file and is available for examination upon request and approval of our quality assurance manager. The above uncertainties represent an expanded uncertainty expressed at approximately 95% confidence level using a coverage factor of k=2.

| | | | | | | | | | | | | | |
|-----------------------------|-------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|
| Item No. | 1531 | | | | | | | | | | | | |
| Accuracy | 1 Deg F. | | | | | | | | | | | | |
| Range | 0 to 2200 Deg F. Type K | | | | | | | | | | | | |
| Technician | Paul Grolla | | | | | | | | | | | | |
| Intentional Offset as found | 0 | | | | | | | | | | | | |
| Intentional Offset as left | 0 | | | | | | | | | | | | |
| Limitations: | None | | | | | | | | | | | | |
| Adjustments: | Calibrated | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Calibration Point | 0.00 | 0 | 280.0 | 280 | 760.0 | 760 | 1240.0 | 1240 | 1720.0 | 1720 | 2200.0 | 2200 | Sens. Check |
| | Initial | Final | Initial | Final | Initial | Final | Initial | Final | Initial | Final | Initial | Final | |
| CH 1 | -0.4 | 0 | 279.5 | 280 | 759.3 | 760 | 1239.1 | 1240 | 1719.1 | 1720 | 2199.0 | 2200 | OK |
| CH 2 | 0.8 | 0 | 280.6 | 280 | 760.4 | 760 | 1240.3 | 1240 | 1720.2 | 1720 | 2199.7 | 2200 | OK |
| CH 3 | 0.3 | 0 | 280.5 | 280 | 760.2 | 760 | 1240.0 | 1240 | 1720.2 | 1720 | 2199.8 | 2200 | OK |
| CH 4 | 0.7 | 0 | 280.7 | 280 | 760.3 | 760 | 1240.2 | 1240 | 1720.2 | 1720 | 2199.9 | 2200 | OK |
| CH 5 | 0.3 | 0 | 280.3 | 280 | 760.0 | 760 | 1240.0 | 1240 | 1719.9 | 1720 | 2199.6 | 2200 | OK |
| CH 6 | 0.4 | 0 | 280.5 | 280 | 760.1 | 760 | 1240.0 | 1240 | 1720.0 | 1720 | 2199.7 | 2200 | OK |
| CH 7 | 0.2 | 0 | 280.4 | 280 | 759.8 | 760 | 1239.9 | 1240 | 1719.6 | 1720 | 2199.2 | 2200 | OK |
| CH 8 | -0.4 | 0 | 279.7 | 280 | 759.4 | 760 | 1239.3 | 1240 | 1719.2 | 1720 | 2199.0 | 2200 | OK |
| CH 9 | -1.0 | 0 | 279.0 | 280 | 759.0 | 760 | 1239.0 | 1240 | 1719.0 | 1720 | 2199.0 | 2200 | OK |
| CH 10 | -0.8 | 0 | 279.2 | 280 | 759.1 | 760 | 1239.0 | 1240 | 1719.1 | 1720 | 2199.0 | 2200 | OK |
| CH 11 | 0.0 | 0 | 279.9 | 280 | 759.9 | 760 | 1240.0 | 1240 | 1720.0 | 1720 | 2200.0 | 2200 | OK |
| CH 12 | 0.3 | 0 | 280.5 | 280 | 760.1 | 760 | 1239.9 | 1240 | 1720.0 | 1720 | 2199.8 | 2200 | OK |