ILLIANA INSTRUMENTATION

1831 Govert Drive Schererville, IN 46375 (219)227-8788 illianaservice.com

CERTIFICATE OF CALIBRATION

Illiana Instrumentation	Date received: 03/02/20
1831 Govert Drive	Calibration date: 03/02/20
Schererville, IN 46375-	Recalibration due: 03/31/22

Purchase order:

Location of calibration: Lab

Item number: 1577	Item location: Lab
Tag number:	Temp: 69.0º F. Humidity: 34 Sensitivity: OK
Manufacturer: Hart Scientific	Condition as found: In tolerance
Model num: 2562/5628	Condition as left: In tolerance
Description: 1577 Scanner/Probe	Intentional offset as found: 0.0000
Serial number: A45339/1558	Intentional offset as left: 0.0000
Accuracy: +/- .2 Deg F.	Limitations: None
Item notes:	

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 reconized 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 review 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.

Tech: *Paul Grolla*   Date: 03/02/20   Approved by: *Laura Grolla*   Date: 03/02/20

Paul D Grolla - ISA Certified Controls Systems Tech.   Laura Grolla - Deputy Quality Manager

Cal Point	Init Read	Final Read	Upper Tol	Lower Tol	Eng Units	Cal point description	Pass?
5.0000	5.0200	5.0200	5.2000	4.8000	Deg F.		Yes

Standard(s): 1429 Hart Scanner, 1225 Hart PRT
Adjustments:
  Problems:
  Uncertainty: 0.0600 Deg F.   Procedure: WI-515

Cal Point	Init Read	Final Read	Upper Tol	Lower Tol	Eng Units	Cal point description	Pass?
32.0000	32.0100	32.0100	32.2000	31.8000	Deg F.		Yes

Standard(s): 1429 Hart Scanner, 1225 Hart PRT
Adjustments:
  Problems:
  Uncertainty: 0.0600 Deg F.   Procedure: WI-515

Cal Point	Init Read	Final Read	Upper Tol	Lower Tol	Eng Units	Cal point description	Pass?
77.0000	77.0400	77.0400	77.2000	76.8000	Deg F.		Yes

Standard(s): 1429 Hart Scanner, 1225 Hart PRT
Adjustments:
  Problems:
  Uncertainty: 0.0600 Deg F.   Procedure: WI-515

Cal Point	Init Read	Final Read	Upper Tol	Lower Tol	Eng Units	Cal point description	Pass?
100.0700	100.1200	100.1200	100.2700	99.8700	Deg F.		Yes

Standard(s): 1429 Hart Scanner, 1225 Hart PRT
Adjustments:
  Problems:
  Uncertainty: 0.0600 Deg F.   Procedure: WI-515

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Cal Point	Init Read	Final Read	Upper Tol	Lower Tol	Eng Units	Cal point description	Pass?
200.2300	200.3000	200.3000	200.4300	200.0300	Deg F.		Yes

Standard(s): 1429 Hart Scanner, 1225 Hart PRT
Adjustments:
  Problems:
  Uncertainty: 0.0600 Deg F.   Procedure: WI-515

Cal Point	Init Read	Final Read	Upper Tol	Lower Tol	Eng Units	Cal point description	Pass?
284.3100	284.3800	284.3800	284.5100	284.1100	Deg F.		Yes

Standard(s): 1429 Hart Scanner, 1225 Hart PRT
Adjustments:
  Problems:
  Uncertainty: 0.0600 Deg F.   Procedure: WI-515

Cal Point	Init Read	Final Read	Upper Tol	Lower Tol	Eng Units	Cal point description	Pass?
391.5000	391.4000	391.4000	391.7000	391.3000	Deg F.		Yes

Standard(s): 1429 Hart Scanner, 1225 Hart PRT
Adjustments:
  Problems:
  Uncertainty: 0.0600 Deg F.   Procedure: WI-515

Customer approval:_____ Date:_____

 Total pages for Certificate 999999-01577-5456: 2