Remit to address	Invoice # 461996
RKI Instruments, Inc.	Invoice Date September 9, 2022
33248 Central Avenue	Order # 1115407
Union City CA 94587	Due Date 10/09/2022
Phone: 510-441-5656, Fax: 510-441-5655	

INVOICE

Sold to: Customer Code 1331	Shipped to
Riken Keiki Co., Ltd. 2-7-6 Azusawa Itabashi-ku *** QUBE PDF INV ** Tokyo, 344-0057 JAPAN Fax # 3558-9110/email	Riken Keiki Co., Ltd. 2-7-6 Azusawa Itabashi-ku Tokyo, 174-8744 JAPAN

Send Invoice To
A/P Contact ** ** by eMail n-yasue@rikenkeiki.co.jp

Date Shipped	Ship Via	Shipping Terms	Customer P.O. #	Payment Terms	Sales Rep
09/09/2022	N/A	SERVICE	SA22-034 / RKK 982	Net 30 Days	Field Service Contractor

Quantity Ordered	Quantity This Shipment	Quantity Prior Shipmts	Quantity Back Ordered	Unit	Item Code & Description	Unit Price	Extension
1	1		0	HR	90-F-HOUR Field service hourly labor charge Hours are 2.6666 at $ 100.00 per hour Location: TI-RFAB 2 Tool ID: HDD50A Model: FC-3100 SN: B30601825C	266.660	266.66
1	1		0	HR	90-F-HOUR Overtime Hours 1.5 hours of overtime at 150.00 per hour	225.000	225.00
1	1		0	Each	90-F-GAS Gas Test Points	25.000	25.00
1	1		0	Each	90-F-TRAVEL Field Service Travel Expenses Cost split with RKK 674 & 985	213.120	213.12
1	1		0	Each	90-F-MISC Handling Charge	225.000	225.00

Sub-Total	954.78
Shipping & Handling	
Other State Tax	
CA Tax	
Credits	
Total Amount Due US$	**954.78**

APPENDIX

P.O. No.: SA22-034/ RKK982	Fab/Loc:	TEL	Service Prov.:	Detect Services
		TI-RFAB 2	Technician:	Daniel Duron

Head-count	Item	Q'ty		Price	Total
		1 person			
Labor fee	Labor fee for 1 day	0	day rate	US$1,200.00	US$0.00
	Labor fee per hour	2.6666	hours	US$100.00	US$266.66
	Over time premium	1.5	hour	US$150.00	US$225.00
				Labor Subtotal	**US$491.66**
Test Gas Charge	Gas per point	1		US$25.00	US$25.00
	Test Gas Shipping	0	No gas was shipped	US$125.00	US$0.00
				Test Gas and Shipping Subtotal	**US$25.00**
Travel and other charges	Journey	From		To the site	
	Air fare	0		US$0.00	US$0.00
	Rental Car	0	Ea.	US$0.00	US$0.00
	Travel Time	0	Day	US$0.00	US$0.00
	Mileage	575	Miles	$0.625	US$119.79
	Meal /Per Diem	0.3333	Ea	US$250.00	US$83.33
	Hotel Charge	0	Ea.	US$0.00	US$0.00
	Gasoline, rental car	0	EA	US$0.00	US$0.00
	Tolls	0	Ea.	US$0.00	US$0.00
	Admin Fee	1	Ea.	US$10.00	US$10.00
				Travel and Misc. Subtotal	**US$213.12**
Extra cost for this job	handling and processing fee (flat rate)				US$225.00
Note: Cost split with	RKK674 & RKK985				US$954.78

![RKI INSTRUMENTS logo]

INSTRUMENTS

Gas Detection For Life

START-UP INSPECTION CHECK SHEET

2022.09.06	T25852	SA22-034 – RKK982	HDD50A

Tool Mfg. Name: **Screen Semiconductor Solutions**	**Company Name: Detect Services Corp**

Service Site: Address: **Texas Instruments RFab2 300 West Renner Road**

City, State, Zip: **Richardson, TX 75080**

Controller Model #:	(IPA): GD-70D-IPA	**Sensor Type:** (IPA) NCU-6211 217601668RN (13-0548M)
Detector/Inst. No(s):	(IPA): 25L0298201-6RN	**Tool Model No: FC-3100** **Tool SN: B30601825A** **Tool ID: HDD50A**
Cal Gas:	(i-C4H10): 50%LEL (IPA): 10%LEL	**Gas Lot # (i-C4H10): 304-402008689-1** **(IPA): 304-402364480-1**

No	Test	Check Conditions or Method	Observations	Values/Settings	Tests Good
*1	Range of LED / LCD bar meter on control module or transmitter	Range & sensor type match the control module or transmitter.	Sensor and meter are the same range and gas type.	Range: Gas Type: (IPA): 0-100%LEL	✓
*2	Sensor voltage, bias or heater voltage.	Test sensor voltage at sensor test points with a DC voltmeter.	Does sensor voltage match value marked on controller?	Sensor voltages: E Volt (IPA): 1508mV	✓
*3	Zero value of LED / LCD meter on the control module or transmitter.	With power to the indicator / alarm unit and sensor head, check the stability of zero point. Adjust to zero using zero adjust controls in a gas free environment.	With sensor zeroed verify that the display is reading zero and is stable in a gas free environment. Sensor head = 4mA (± .1mA)	Zero Point: (IPA): 0%LEL	✓
*4	Span value of LED / LCD bar meter on the control module or transmitter.	Apply test gas to sensor and compare the reading on the with the test gas value. Adjust the span controls such that the meter reading matches the test gas value.	The meter read-out equals the test gas value applied to sensor. Sensor head mA signal is correct for span reading.	Gas Value: (IPA): 10%LEL / Meter reading: (Precal) (IPA): 12%LEL	✓
*5	Alarm verification	Apply test gas to sensor and observe the meter and alarm set points. Meter should indicate alarms once reading exceeds alarm set point.	Meter LED flashes and indicators light upon exceeding alarm set points.	A1 Set Point: (IPA): 10%LEL / A2 Set Point: (IPA): 20%LEL	✓
*6	Alarm time delay and sensor response time	Apply test gas to sensor and record the time it takes for an actual alarm to occur.	Alarm occurs within 60 seconds when applying test gas.(Within 30 seconds for H2)	Verified (OK)	✓

Note: Items # 1-6 must be performed while controller is in maintenance mode!

✓ *Mark indicates test was completed successfully*

RKI Instruments, Inc. 33248 Central Ave. Union City CA 94587 • Phone (510) 441-5656 • (800) 754-5165 • Fax (510) 441-5650

World Leader In Gas Detection & Sensor Technology

Page 1 of 2   www.rkiinstruments.com

Form 19-01-01

Revision: **H**; 05/22/15

2022.09.06		T25852	SA22-034 – RKK982	HDD50A	
No	Test	Check Conditions or Method	Observations	Values/Settings	Tests Good
7	Alarm Performance.	**IMPORTANT:** Consult customer prior to performing this test. Alarms may shut down a process that is critical. Test should only be performed after customer provides authorization to test the alarm. Press the test button on the indicator/alarm unit or apply test gas to the sensor to trigger an alarm.	Meter shall increase, alarms activate, buzzer (if applicable) sounds, external alarm contacts activate and can be cancelled by pressing the reset button. Customer's remote alarm interface activates.	Description of alarm Interface: Working Properly	✓
8	Sample Flow Adjustment (For sample draw sensors only)	Visually check that flow meter is in the center of the indicator and/or ball floats within the site glass red marks. Adjust pump flow rate if needed. **For sample draw sensor heads with low flow alarms (GD-B7 etc) check the performance of low flow alarm by blocking inlet.	Flow meter is in the center of the range. Block inlet, flow indicator drops to bottom. **Trouble lamp, buzzer & trouble relay trip. All return to normal with inlet blockage is removed.	Normal flow: Ball floats between red lines on flow meter or in center of digital flow indicator. Verified (OK)	✓
9	Sample tube connection. (For sample draw sensors only)	Check that the sampling inlet and exhaust outlet of each sample draw sensors are installed, in the proper positions and all fittings are tight.	*No errors in plumbing. All tubes are connected and all fittings are tight. *The required filters are installed.	Verified (OK)	✓
10	Verification that control module is no longer in maintenance mode	Check to verify that control module is in normal operation.	No lights or other indication that module or transmitter is in maintenance mode.	Verified (OK)	✓
11	Apply Calibration Sticker.	Verify that calibration sticker is filled out and applied to the control module or transmitter.	Attach sticker to control module or transmitter.	Verified (OK)	✓
12	Customer signature required upon completion of Start-up.	Verify that form is properly filled out ready for signature. (For TEL startups, fill out required check sheet.)	Form(s) are filled out.	Signature (OK)	✓

RKI INSTRUMENTS, INC.

Date: 2022.09.06

Tested by: **Detect Services Corp** Daniel Duron

Approved by: **Screen SPE** Brian Wilson

If replacement sensors are installed, please indicate in notes section below.

Notes:

Old Sensor SN	New Sensor SN

✓ Mark indicates test was completed successfully

RKI Instruments, Inc. 33248 Central Ave. Union City CA 94587 • Phone (510) 441-5656 • (800) 754-5165 • Fax (510) 441-5650

World Leader In Gas Detection & Sensor Technology **Form 19-01-01**

Page 2 of 2   www.rkiinstruments.com   Revision: **H**; 05/22/15