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Crossbow

1.02

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DMU Product Information

Serial Number: 9914736

Date: 07/29/1999

Firmware Version: DMU VGX REV.B.01

EEPROM Programming Status:

- [x] Serial Number
- [ ] Firmware ID
- [x] Options Switch
- [x] Sensor Range
- [x] Temp Comp Table
- [x] Calibration Table
- [ ] RS485 ID
- [ ] Digital Filter
- [ ] Mag Cal Table
- [ ] Mag Misalignment

Switch Settings:

Baud Rate	SubModel	Power-up Mode			
38400	6X	Scale	[x] Temp Comp	[ ] Adaptive T	[ ] Autozero
			[ ] Filter	[ ] RS-485	

Calibrated at internal temperature (°C): 33.56

Accelerometer Calibration Data:

Axis	Range (G)	Sensitivity (G/V)	Null Offset (V)
X	4.000	1.948	2.489
Y	4.000	2.022	2.544
Z	4.000	2.043	2.488

Gyro Calibration Data:

Axis	Range (deg/sec)	Sensitivity (deg/sec/V)	Null Offset (V)
X	50.000	24.924	2.544
Y	50.000	25.783	2.536
Z	50.000	24.924	2.554

Technical Support:

For further technical assistance, contact Crossbow Technology.

SN9914736_temp_cal-1999-0728-1726_verfication

Front Panel

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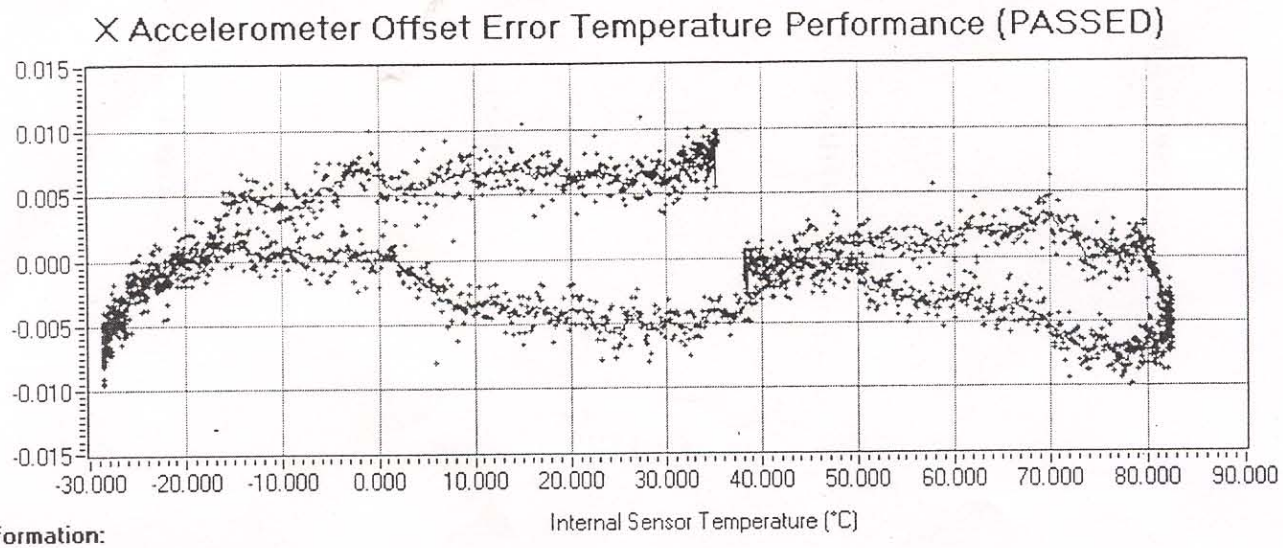
SN9914736_temp_cal-1999-0728-1726_verfication



Information:

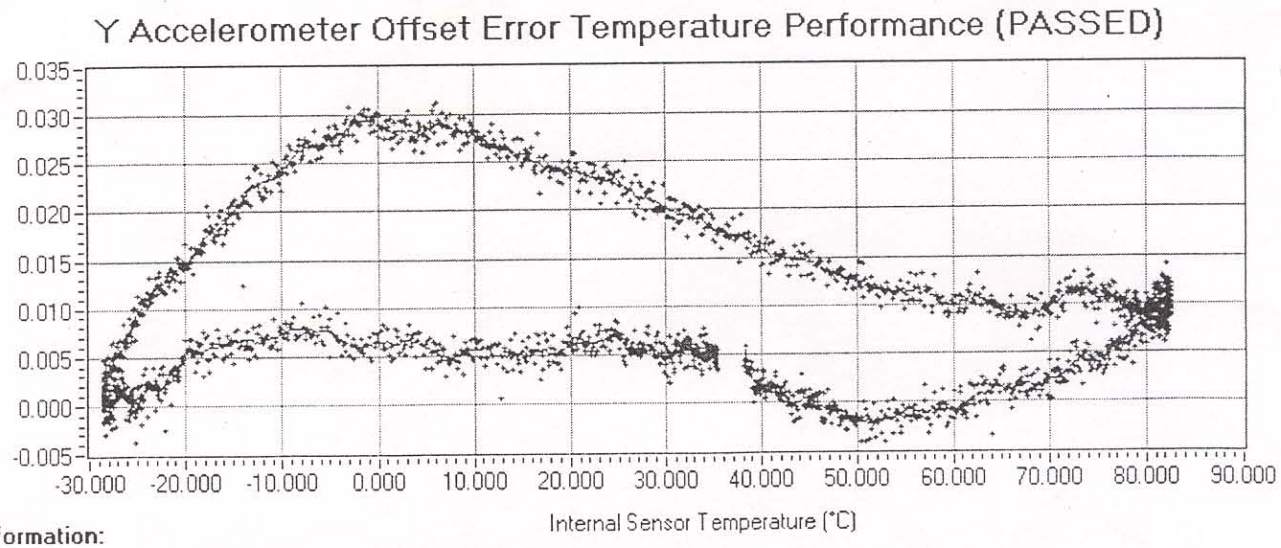
#X Accelerometer offset error shown in units of G with sensor range =4.000000
#Oven Temperature Range: High = 85.000000 °C, and Low = -40.000000 °C
#Mean error =-0.000407, std dev =0.004364, max error =0.009836, min error =-0.008226 (after 15-pt averaging)
#High threshold =0.025712, low threshold =-0.022340 @ sensor temperature =34.543578 °C
#This sensor has PASSED the tolerance of 0.030000!
#Adjusted for a special offset of 0.000000

results

Front Panel

Crossbow 1.06

SN9914736_temp_cal-1999-0728-1726_verfication



Information:

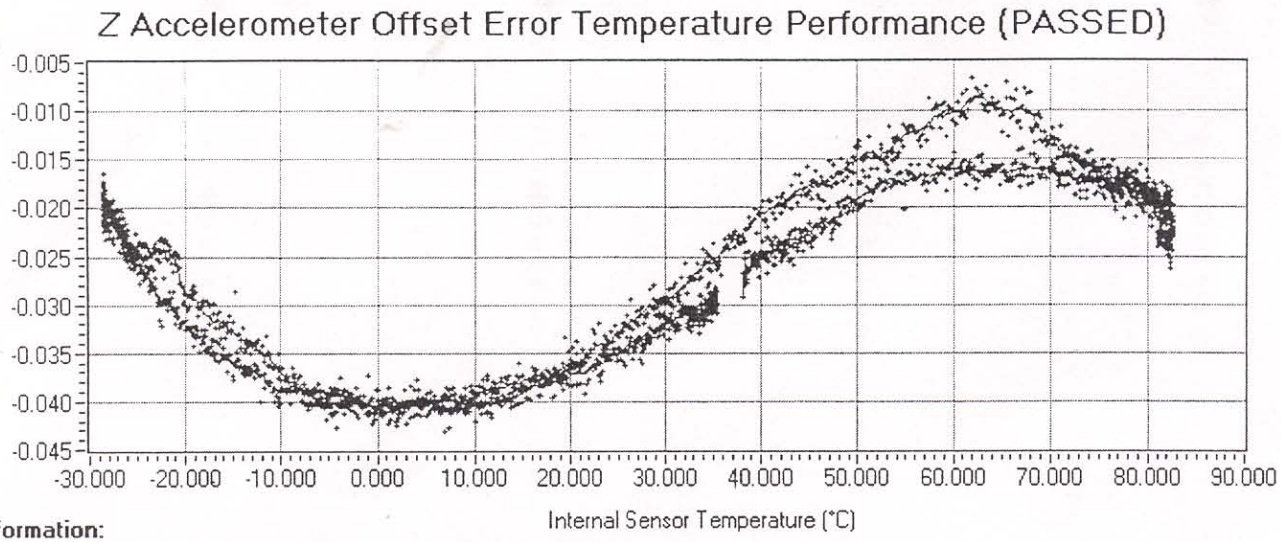
#Y Accelerometer offset error shown in units of G with sensor range =4.000000
#Oven Temperature Range: High = 85.000000 °C, and Low = -40.000000 °C
#Mean error =0.009674, std dev =0.008380, max error =0.029555, min error =-0.002347 (after 15-pt averaging)
#High threshold =0.034864, low threshold =-0.011633 @ sensor temperature =34.543578 °C
#This sensor has PASSED the tolerance of 0.030000!
#Adjusted for a special offset of 0.000000

Plot results

Front Panel

Crossbow 1.06

SN9914736_temp_cal-1999-0728-1726_verification



Information:

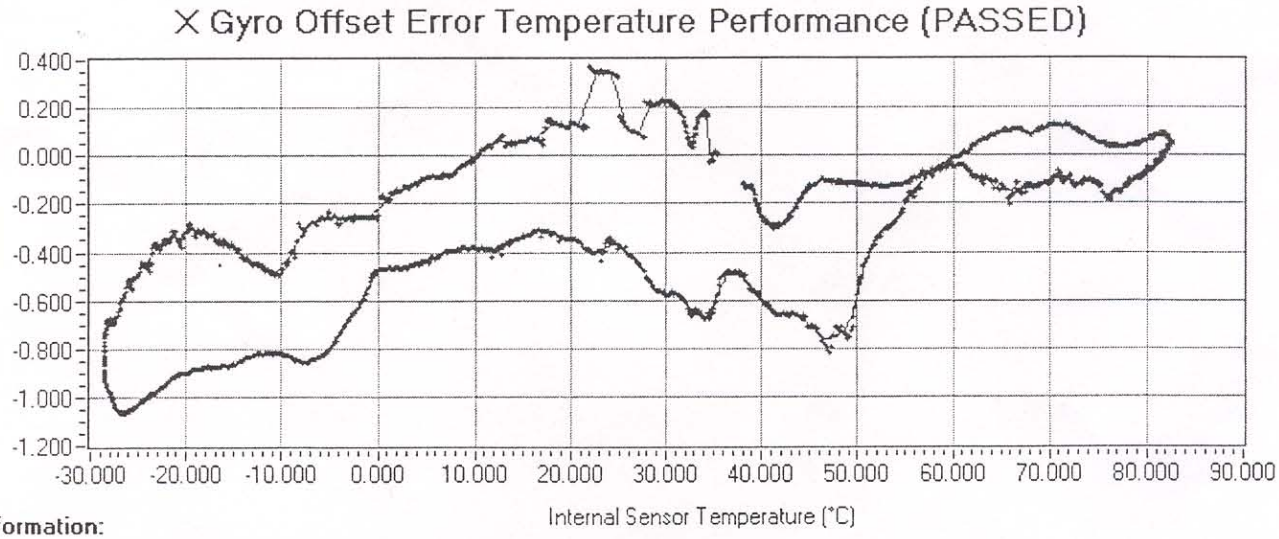
#Z Accelerometer offset error shown in units of G with sensor range =4.000000
#Oven Temperature Range: High = 85.000000 °C, and Low = -40.000000 °C
#Mean error =-0.026422, std dev =0.009268, max error =-0.008615, min error =-0.041036 (after 15-pt averaging)
#High threshold =0.000188, low threshold =-0.055710 @ sensor temperature =34.543578 °C
#This sensor has PASSED the tolerance of 0.030000!
#Adjusted for a special offset of 1.000000

Plot results

ıt Panel

Crossbow 1.06

SN9914736_temp_cal-1999-0728-1726_verification



Information:

#X Gyro offset error shown in units of deg/sec with sensor range =50.000000
#Oven Temperature Range: High = 85.000000 °C, and Low = -40.000000 °C
#Mean error =-0.279009, std dev =0.349704, max error =0.353767, min error =-1.063197 (after 15-pt averaging)
#High threshold =2.104977, low threshold =-2.710129 @ sensor temperature =34.543578 °C
#This sensor has PASSED the tolerance of 2.750000!
#Adjusted for a special offset of 0.000000

Plot results

Front Panel

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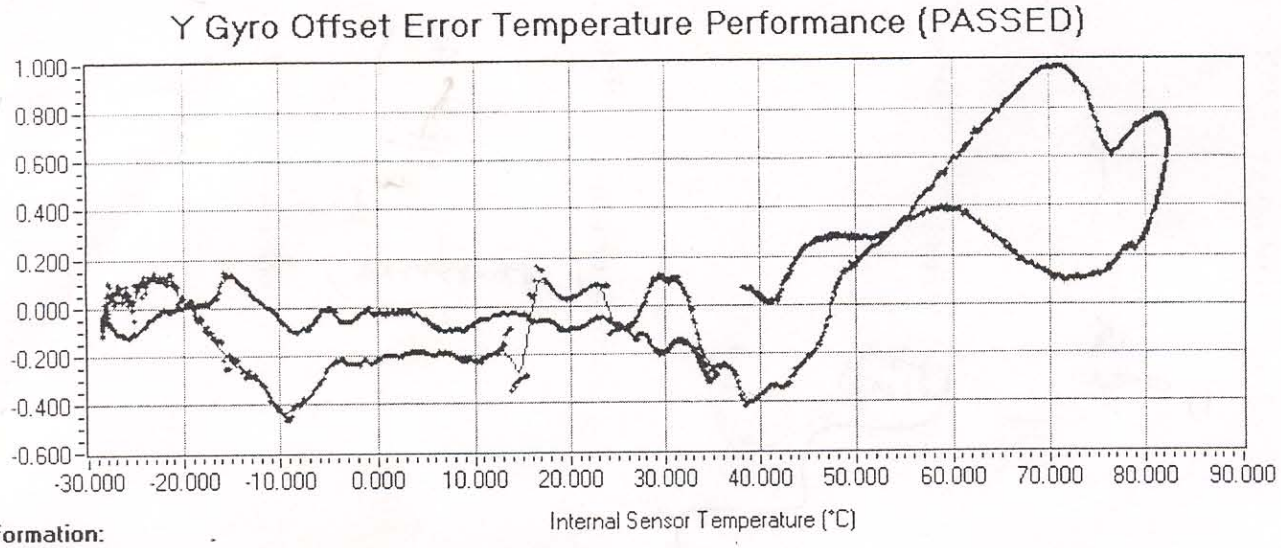
SN9914736_temp_cal-1999-0728-1726_verfication



Information:

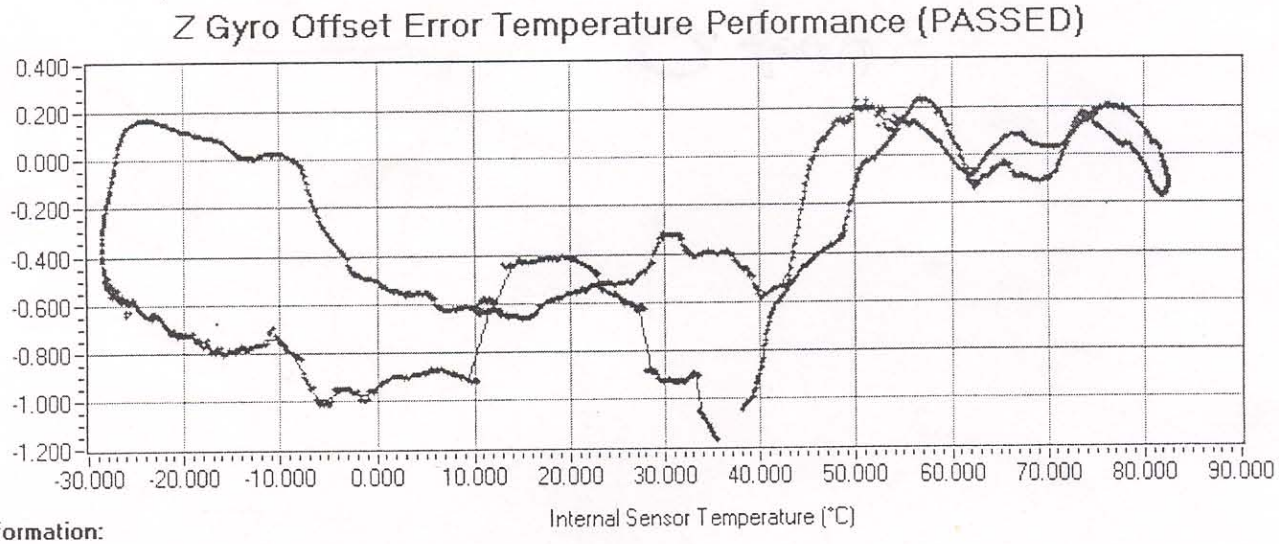
#Y Gyro offset error shown in units of deg/sec with sensor range =50.000000
#Oven Temperature Range: High = 85.000000 °C, and Low = -40.000000 °C
#Mean error =0.111472, std dev =0.326982, max error =0.972833, min error =-0.431905 (after 15-pt averaging)
#High threshold =2.442738, low threshold =-2.988002 @ sensor temperature =34.543578 °C
#This sensor has PASSED the tolerance of 2.750000!
#Adjusted for a special offset of 0.000000

Plot results

Front Panel

Crossbow 1.06

SN9914736_temp_cal-1999-0728-1726_verfication



Information:

#Z Gyro offset error shown in units of deg/sec with sensor range =50.000000
#Oven Temperature Range: High = 85.000000 °C, and Low = -40.000000 °C
#Mean error =-0.334983, std dev =0.383724, max error =0.228246, min error =-1.174164 (after 15-pt averaging)
#High threshold =1.631917, low threshold =-3.148874 @ sensor temperature =34.543578 °C
#This sensor has PASSED the tolerance of 2.750000!
#Adjusted for a special offset of 0.000000

*****Final Test Result*****

This unit has 6 out of 6 sensors passed the test.
It has **PASSED** the test!