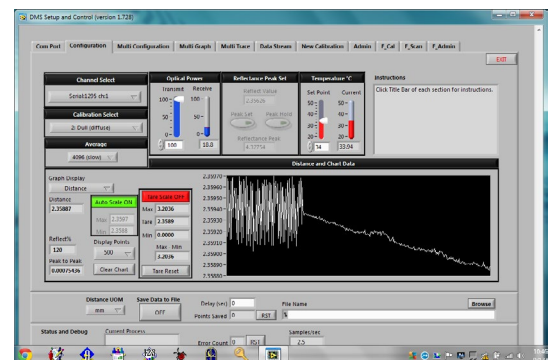
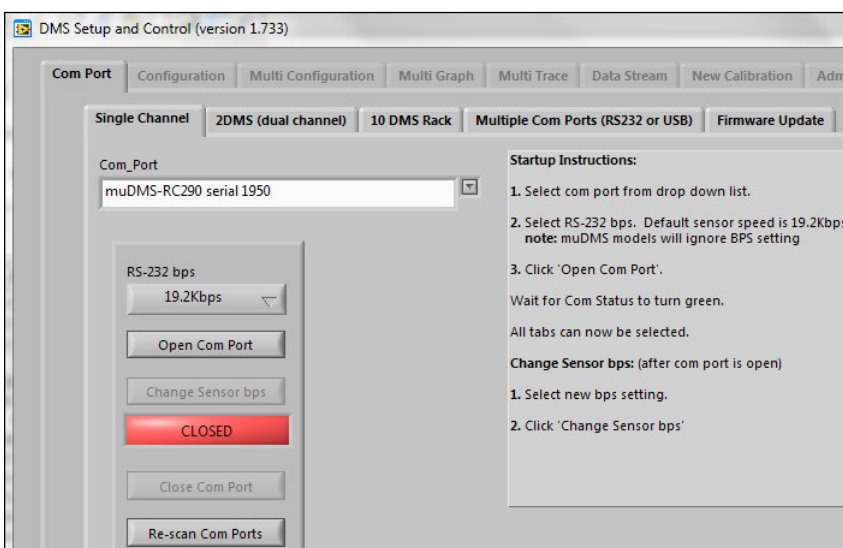


Quick Start Guide for muDMS Sensors

1. Connect the AC/DC power adaptor to the sensor.
2. Connect the sensor to a PC port using USB adaptor cable.
3. Turn on AC power.
4. Load Philtec's DMS Control Software into your PC*
5. Open the DMS Control Software
6. *At Single Channel Tab*, select the sensor serial number to be used from the Com Port menu.
7. Click Open Com Port
8. Click on Configuration Tab to set up the sensor controls



SOFTWARE & FIRMWARE DOWNLOADS

*DMS sensors can be updated remotely at any PC. The most current versions of control software and firmware are posted at <http://www.philtec.com/downloadssupport/firmware.html>

PROCEDURE

Download the DMS Control software to your local hard drive.

Locate the .exe file and execute the program. Follow the on-screen instructions.

PHILTEC®

www.philtec.com

Fiberoptic Sensors for the Measurement of Distance, Displacement and Vibration

SETUP & CONFIGURATION

- 1. Temperature:** The factory preset is 35°C. Use the slide controls to set the temperature of the electronics. Allow the unit to reach steady state temperature prior to making any measurements. This can take 10 - 15 minutes. Raise the SET POINT ~3° higher than the unheated steady state temperature.
- 2. Calibration Select:** choose the **Mirror** calibration data table for smooth polished targets. Choose the **Diffuse** calibration data table for all other targets.
- 3. Average Filter:** select **2 averages** for highest sensor speed. select **4056 averages** for best resolution.
- 4. Optical Power :: read Receive Power.** The factory preset is with 20% transmit power. Move the sensor thru its operating range and note the highest Receive Power. Adjust the Transmit Power so that the receive power PEAK VALUE is a good signal but does not exceed 95%. The sensor will function normally with 1% or better receive signal power.

DMS Setup and Control (version 1.805)

Com Port Configuration Multi Configuration Multi Graph Multi Trace New Calibration Admin F_Cal F_Scan F_Admin

Channel Select
Serial:2006 ch:1

Calibration Select
1: Mirror (specular)

Average
16

Optical Power
Transmit: 20, Receive: 42.4

Reflectance Peak Set
Reflect Value: 4.89543
Peak Set, Peak Hold
Reflectance Peak: 7.37407

Temperature °C
Set Point: 35, Current: 34.94

Graph Display
Sensor Curve
Distance: 778.686
Reflect%: 98
Peak to Peak: 0.0019455
Auto Scale ON
Tare Scale OFF
Max: 4.8968, Min: 4.8946
Tare: 4.8954
Max - Min: 0.0000
Display Points: 1000
Clear Chart
Tare Reset

Distance and Chart Data
4.89680
4.89660
4.89640
4.89620
4.89600
4.89580
4.89560
4.89540
4.89520
4.89500
4.89480
4.89460

Distance UOM: mI
Save Data to File: OFF
Delay (sec): 0
Points Saved: 0
File Name: RST