

# DataMite USB 4 Measuring Spark Advance

1 Typical settings for Engine RPM and Freq 2 channels for measuring Spark Advance, with inductive pickup recording spark signal from just 1 cylinder, and 1 magnet on the crank damper.

2 Click on Freq 4 "Sensor and Calibration" to assign as Spark. NOTE: Only Freq 4 can be spark.

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#	Channel	Used?	Data Name	Sensor and Calibration	Graph Multiplier
1	Engine RPM (RPMs A, 1)	Yes	ENG RPM	1 Cylinder, 4 Stroke	
2	Frequency 2 (RPMs B, 1)	Yes	Dyno rpm	Dyno Wheel RPM, 1 Magnet	
3	Frequency 3 (RPMs B, 2)	Yes	Fuel Flow	Fuel Flow (x 3.312)	

3 Choose "Spark Advance" as the Sensor, then click "Calibrate" button and follow program instructions. Get engine running at stable RPM, measure spark advance with timing light, and click OK to tell program you have done this. Then program will ask you what the spark advance was as shown to left. Now the crank position signal is calibrated.

## DataMite 4 USB

Spark Signal **MUST** be RPMs A, Eng RPM.

Crank Position Signal **MUST** be RPMs B, Freq 2

Position the magnet or target for 1 pulse/rev (1 magnet) the encounters the sensor 10-50 degrees AFTER TDC on the cylinder for the spark you are measuring. By "calibrating" you determine this exact position.

