



This combustion analysis system consists of an in-cylinder pressure transducer and amplifier, crank angle encoder with TDC trigger and data acquisition unit (DAQ) to capture the combustion pressure. The pressure transducer is an optical type sensor (at right) measuring diaphragm deflection to calculate cylinder pressure. This type of sensor gives very stable and consistent signal, unlike the piezo-electric sensor which will drift over time. The DAQ is clocked by the encoder crank angle signal, where each pressure data point corresponds to a particular crank angle. This allows much easier data processing than the time based DAQ.

## FEATURES

- Optics diaphragm deflection detection give stable and consistent pressure signal
- Crank angle based data acquisition greatly simplified combustion data processing (only 360 data points for each engine revolution, using 1 degree clock signal)
- Small M5 Sensor
- Free computer software to capture data
- 1 Year Warranty Included



