

# Acceleration - Roundabout Subject to Change Without Notice

### V.A.S.E. Pro Accelerometer

#### AMA Jewell – Acceleration in Roundabout

#### Introduction

V.A.S.E. Pro use Jewell Instruments AMA accelerometers. The instruments are connected to a Data Acquisition Unit. Acceleration values of a subcompact car and a minivan through a roundabout. Each result will vary by vehicle type, road conditions, vehicle condition, placement of accelerometers, etc.

## Typical Readout Spec V.A.S.E. Pro Accelerometer

- Continuous Readout
- Save in time stamped continuous files 15 seconds to multiple hours.
- Sample Frequency 300 Hz or other
- Three axis (x, y, z)
- Resolution 0.001g
- Linearity Sample Range -3g to +3g
- Bessel Filtering
- Calibration Curves
  - Typically form  $g=\Sigma(+/-a_ix^i)$  (i=0 to 4)

