

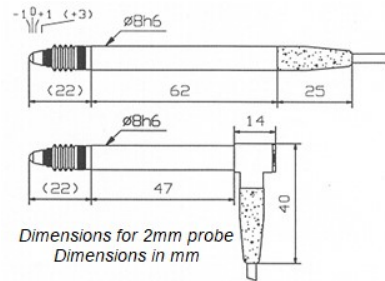
## Fireball digital probes and software

Low cost LVDT probes with plug and play USB connectivity.

Plug one or more Fireballs into PC USB ports for an instant gaging system.

**Fireball LD** probes output ASCII characters that can be read by other programs, hyperterminal type software or saved to a CSV file.

- No wedge needed.
- Inch/metric choice pre-programmed before shipment from factory.
- No Albion software required.
- User provides software.
- 2mm (0.08 inch), 4mm (0.16 inch) and 8mm (0.31 inch) measurement ranges.
- Linear throughout measurement range.
- Instant USB connectivity.
- Self contained electronics to provide a digital output, suitable for interfacing to a PC.
- Reduces clutter and expense by eliminating innumerable system components.
- Cost per channel lower even than LVDT with signal conditioning board.
- No expensive external signal conditioning and amplification circuitry required.
- 0.0002 mm/0.00001 inch accuracy and repeatability.
- Overall lower system cost than LVDTs or other digital probes.
- Used for gaging and positioning measurement.
- Pre-calibrated at the factory. No recurrent re-calibration required.
- Minimal setup time. Plug and play.
- Requires single master only, no MIN and MAX masters.
- Quantity depends only on available USB ports on PC, or hubs.



**Calibrated Range**  $\pm 1.0$  mm,  $\pm 2.0$  m, or  $\pm 4.0$  mm,  
**Linearity**  $< 0.3\%$  of total stroke bsl  
**Repeatability** 0.02um  
**Bearing Type** Linear Ball  
**Minimum Life** 10 million cycles  
**Moving Mass** 6 grams  
**Anti-rotation** Max. 1 degree over full travel  
**Temperature Range** 14 to 149 °F ( -10 to +65 °C)  
**Mounting Position** Any position  
**Ball Tip** 3mm tungsten carbide ball – 2.5mm thread  
**Gaiter Material** Viton rubber green  
**Spring Force** 0.63N at electrical zero  $\pm 20\%$   
(option 0.25 - 4N)  
**Service** Transducer is repairable

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