

The Accumeasure $^{\text{TM}}$ AS-563 OEM board is intended for Original Equipment Manufacturers that require a single channel capacitance probe amplifier to measure position of grounded targets. The AS-563 can be rack mounted or free mounted using a pig-tail connector and works with MTII standard or custom single ended (single sensor) probes.

Features

- Sub-micron Resolution
- Interboard Synchronization
- Interchangeable Filter Board
 - 10Hz, 500Hz, 1 kHz, 2kHz and 5kHz available
- Built-in Offset Button with LED Indicator
 - Allows the user to shift the gap output voltage over a 10VDC range (Field Calibratable)
- Adjustable Gain Control
 - Allows user to shift the slope sensitivity (Field Calibratable)
- Two Connectors Built-in
 - P2 (50-pin PCB edge connector)
 - P3 (Molex 50-57-9407)

Best for Applications, Such as:

- Servo-loop Positioning Control
- Precision Dimensional Gauging
- Lens Adjustment/ Focusing Control
- Flatness and Profile Measurement
- Vibration Monitoring
- Shaft Run-out and Analysis
- Lobing Measurement
- Brake Rotor & Spindle Runout
- Screw Thread Quality Inspection



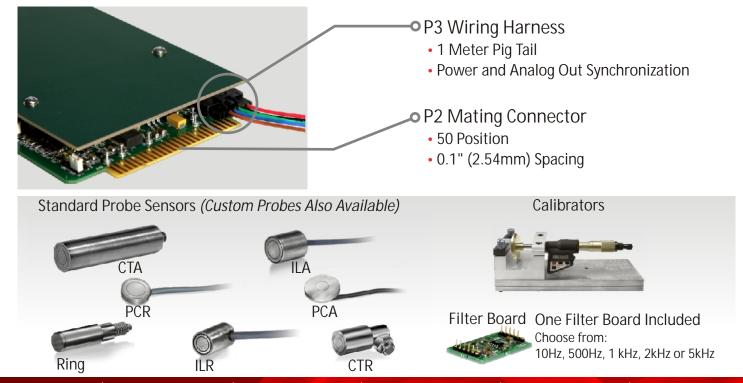
Standard Specifications -

The following specifications listed are for the "Standard" configuration with 1X range. Custom specifications available.

| Measurement Range ¹ | 0 to 12.5mm (0.500inch) |
|---|--|
| Dynamic Resolution ² | 0.000075%/vHz FSR RMS |
| Linearity ³ | ±0.02% FSR |
| Repeatability ³ | ±0.01% FSR |
| Frequency Response (Factory Selectable) | DC to 5kHz |
| Warm-up Up time | 1 Hour |
| Temperature Stability | ±0.01% FSR/ºC |
| Time Stability ³ | ±0.01% FSR/100 hours |
| Output Signal ⁴ | 0 to 10VDC |
| Power | ±15VDC (20mV AC ripple), 3.9W |
| Operating Temperature | 4 to 40°C (40 to 100°F) |
| Storage Temperature | -15 to 65°C (5 to 150°F) |
| Dimensions (LxWxH)⁵ | 239.27x99.95x21.54mm (9.42x3.94x0.85h) |
| Mass | 0.198g (0.437lbs) |

- [1] Dependent on probe type selected.
- [2] 100-5kHz. Equivalent to 0.00167% FSR @500Hz RMS.
- [3] After 100hours site acclimation, warm up, 20°C,100kPa,50% (Temperature, Pressure, Humidity).
- [4] Signal Proportional to probe gap.
- [5] Includes connectors which extend beyond the PCB.

Optional Accessories



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