

The Accumeasure<sup>™</sup> 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 <sup>1</sup>	0 to 12.5mm (0.500inch)
Dynamic Resolution <sup>2</sup>	0.000075%/vHz FSR RMS
Linearity <sup>3</sup>	±0.02% FSR
Repeatability <sup>3</sup>	±0.01% FSR
Frequency Response (Factory Selectable)	DC to 5kHz
Warm-up Up time	1 Hour
Temperature Stability	±0.01% FSR/ºC
Time Stability <sup>3</sup>	±0.01% FSR/100 hours
Output Signal⁴	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.
- $\label{eq:continuity} \textbf{[3] After 100} hours site acclimation, warm up, 20 {}^{\circ}\text{C}, 100 \text{kPa}, 50\% \ (Temperature, Pressure, Humidity).}$
- [4] Signal Proportional to probe gap.
- [5] Includes connectors which extend beyond the PCB.

## **Optional Accessories**



**PCA** 

CTR

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Filter Board One Filter Board Included Choose from:

10Hz, 500Hz, 1 kHz, 2kHz or 5kHz

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