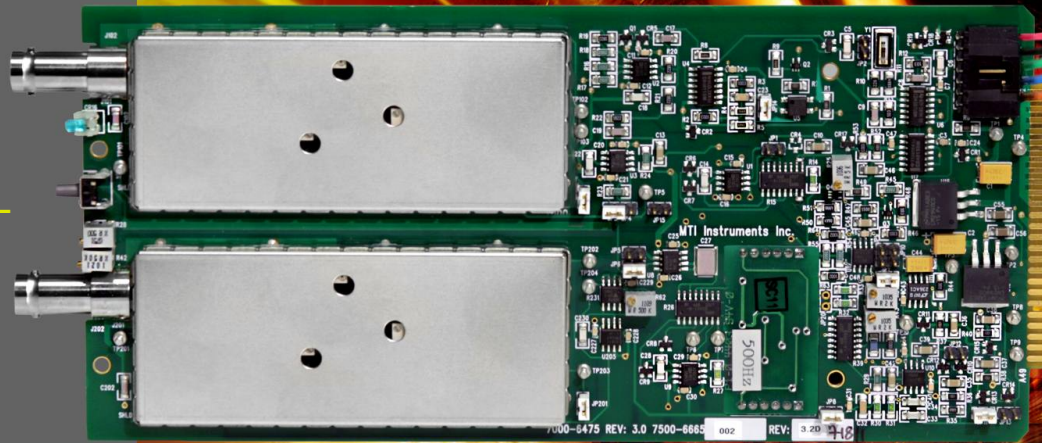


# ACCUMEASURE™ AS-562

## Capacitance Sensor Amplifier OEM Board

HIGH-PRECISION PUSH/PULL  
PROBE AMPLIFIER FOR  
UNGROUNDING TARGETS



12.5mm (0.5")  
RANGE

The Accumeasure™ AS-562 is an advanced capacitance probe amplifier that works with MTI unique push/pull probes to measure ungrounded targets, typically found in thickness applications such as metal fabrications, semiconductors, semi-insulated materials and composite materials. The Push/Pull technology is designed such that each probe consists of two capacitance sensors built into one probe body. This allows the current path to travel across the target surface rather than through the target to ground, eliminating any inaccuracies created by poorly grounded or ungrounded targets.

EXCEPTIONAL REPEATABILITY  
HIGH LINEARITY

### 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 Adjustable)
- **Two Connectors Built-in**
  - P2 (50-pin PCB edge connector)
  - P3 (Molex 50-57-9407)

### Best for Applications, Such as:

- Semiconductor Thickness
- Sheet Metal Thickness for Process Control
- Photovoltaic Wafer Thickness
- Automotive Brake Rotor Run-out
- Thickness Variation
- Leveling or Flatness Measurements

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A worldwide leader in precision measurement solutions

## Standard Specifications

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

Measurement Range <sup>1</sup>	0 to 12.5mm (0.500inch)
Dynamic Resolution <sup>2</sup>	0.000075%/√Hz 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/°C
Time Stability <sup>3</sup>	±0.01% FSR/10 hours
Output Signal <sup>4</sup>	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) <sup>5</sup>	241x100x21.6mm (9.42x3.94x0.85h)
Mass	0.32kg (0.70lbs)

[1] Dependent on probe type selected.

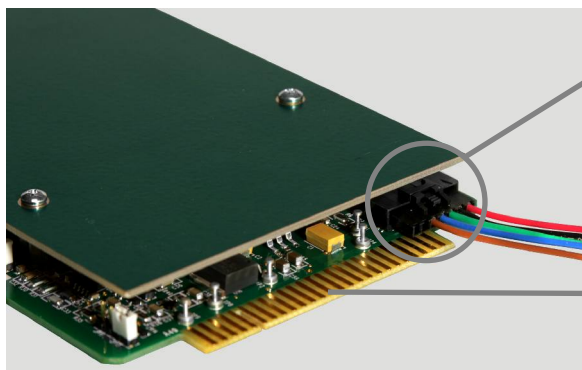
[2] 100-5kHz. Equivalent to 0.00167% FSR @500Hz RMS.

[3] After 10hours site, warm up, 20°C, 50% (Temperature, Humidity).

[4] Signal Proportional to probe gap.

[5] Includes connectors which extend beyond the PCB.

## Optional Accessories



### P3 Wiring Harness

- 1 Meter Pig Tail
- Power and Analog Out Synchronization

### P2 Mating Connector

- 50 Position
- 0.1" (2.54mm) Spacing

### Push/Pull Probe Sensors (Custom Probes Also Available)



### One Filter Board Included



### Choose From:

- Butterworth Filters
  - 10Hz, 500Hz, 1kHz, 2kHz or 5kHz
- Bessel Filter
  - 660Hz

### Calibrators



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