



## Absolute TTL Module for Digital Probes



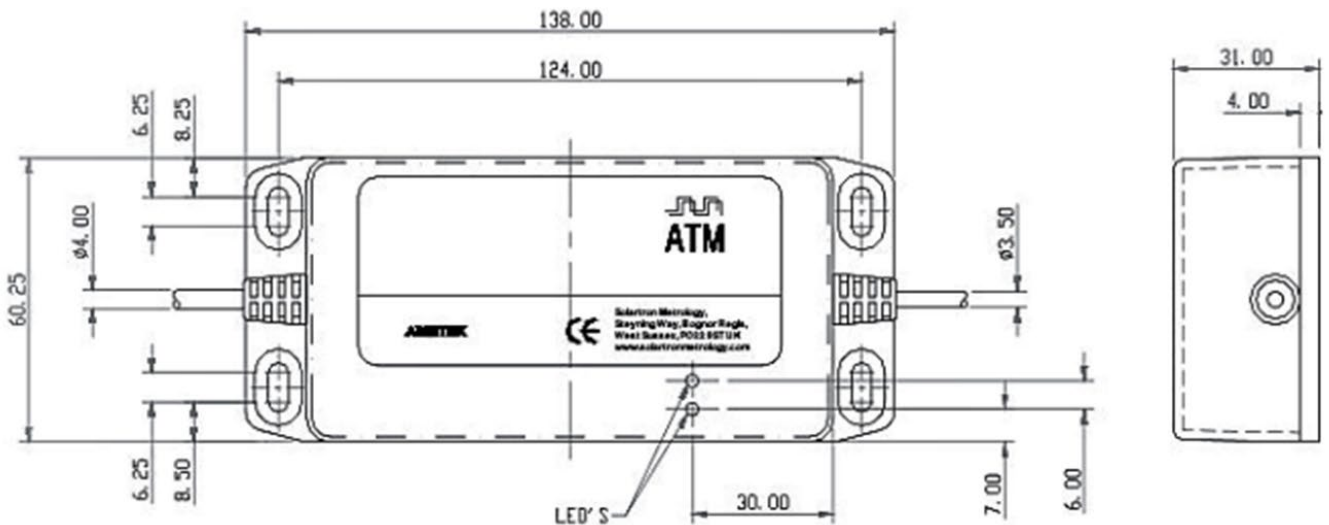
- Solartron Digital Probe accuracy with a TTL output
- Range from 1 mm to 30 mm for Gauging probes
- Up to 300 mm for Displacement transducers
- Typically less than half the cost of Glass Scale transducers, with timely delivery
- Unlike glass scale, **TTL probe will not suffer from “overspeeding” or signal loss** due to quick changes in measurement
- More robust build than glass scale, with digital calibration over full range.
- Status indication lamps



*Optional Inline plug available with Eprom chip*



*Probes available with IP 68 sealing*



Precision. Quality. Reliability

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## Specifications

<b>TTL Module</b>	
<b>Measurement Performance</b>	
Measurement Ranges (mm)	0.5 to 30 mm for Gauging Probes Up to 300 mm for Displacement Transducers
Accuracy (% of Reading) or $\mu\text{m}$ (Note 1)	Up to 0.15% reading depending on transducer type
Repeatability (worst case) $\mu\text{m}$ (Note 2)	<0.15 $\mu\text{m}$ depending on transducer type
Resolution (x4 interpolation)	0.1 $\mu\text{m}$
Gauging Probe Life	100 million cycles (no side load), > 10 million cycles in most applications
<b>Environmental</b>	
Sealing	IP 43 for TTL Module, IP 65 for most standard gauging probes, with an IP 68 sealing option
Storage Temperature ( $^{\circ}\text{C}$ )	-20 to +70 $^{\circ}\text{C}$
Probe Operating Temperature with Gaiter ( $^{\circ}\text{C}$ )	0 to 60 $^{\circ}\text{C}$
EMC Emissions	EN61000-6-3
<b>Electronics Interface</b>	
Power	+5 VDC, +/- 0.25 VDC @ 100 mA
Output Signal	A and B, /A & /B TTL Square Waves, RS422 Levels
Output frequency	50, 100, 125, 250, 360, & 500 kHz (factory selectable)
Bandwidth	100 Hz

Note 1: Accuracy 0.1  $\mu\text{m}$  or % reading whichever is the greater

Note 2: Repeated operation against a carbide target standard deviation from average (68%)



*TTL Module available with full array of Solartron sensors*



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