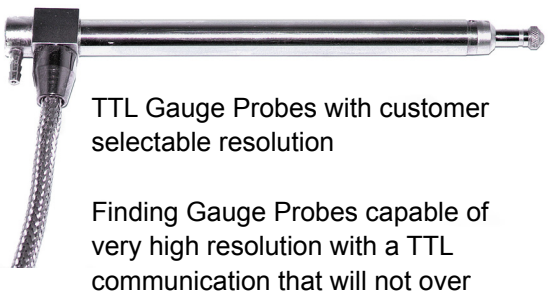
ATM module: absolute > TTL converter

- Will not over speed, even at high resolution settings
- Customer selectable resolution
- Absolute position constantly accessible
- Transmission active lamp
- Status indication lamps

TTL RS 422 Differential Quadrature is one of the most commonly used methods of communication between Linear Displacement Transducers and Control or Data Acquisition Systems. Its simplicity of Interfacing with programmable systems also makes it one of the most cost effective.

The Solartron ATM module is coupled to Solartron Absolute Position Transducers and converts the output to a digital signal. The Transducer Signal Conditioning is designed such that unlike incremental TTL Systems, it will not suffer from ‘‘over speeding’’ or lose position during a power down.

The ATM Module will work with all of Solartron Metrology’s extensive range of LVDT Miniature and Long Stroke Displacement Transducers. The rugged and waterproof S and SR Series are particularly useful within harsh environments in machine position control applications.



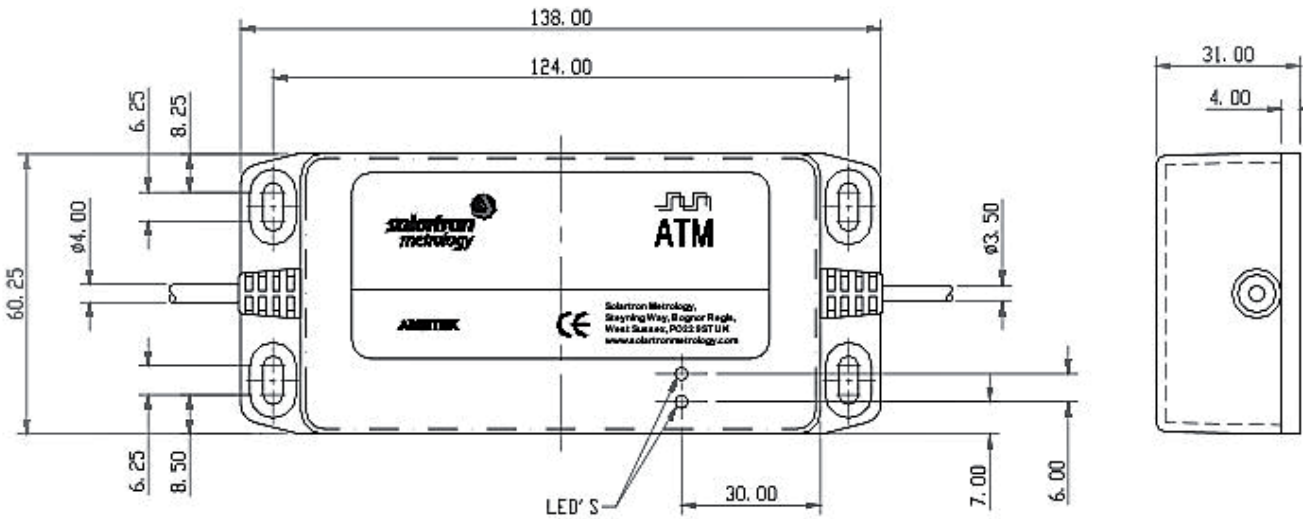
TTL Gauge Probes with customer selectable resolution

Finding Gauge Probes capable of very high resolution with a TTL communication that will not over speed is a rare event and will make a valuable contribution to the system options available to Gauge Builders.

ATM module: Specification and dimensions (mm)

Measurement Performance	
Transducer Types	0.5 mm to 150 mm depending on transducer type Solartron Gauging and Displacement Transducers
Accuracy	Up to 0.15% reading depending on transducer type
Resolution (x4 interpolation)	0.1 µm
Repeatability	<0.15 µm depending on transducer type
Electrical Performance	
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
Environmental	
Sealing	IP43 for electronics module. Typical IP65 for transducer depending on type selected
EMC	Emissions: EN61000-6-3 Susceptibility: EN6100-6-2
Operating Temperature	0 °C to 60 °C
Storage Temperature	-20 °C to 70 °C

Note: Refer to manual 502724 for details of operation - see Solartron web site.



solartron metrology

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