

# CanNeed-PLT-300 Polarization Tester

**Can Need**  
Canned Instrument Ltd.



## Application:

Glass bottles may have stress during manufacturing and processing for some reasons, which may lead to the bursting of glass bottles in high temperature sterilization, filling and other finished product processing.






The phenomenon of stress during glass production has significant consequences on the quality of the glass. This has the effect of causing fragility in the samples. It is therefore essential to control this risk.

CanNeed-PLT-300 Polarization Tester is used to measure the stress of glass bottles, which is developed to highlight various stress defects on glass bottles. It can meet the qualitative testing or quantitative testing, by using the birefringence phenomenon produced by light irradiation to glass bottles to calculate the optical range difference, so as to directly calculate the stress value and stress level.

## Features and Benefits:

- 1) Directly display stress value data and stress level, easy to operate, accurate measurement;
- 2) Adopting absolute angle encoder to replace the original common angle encoder;
- 3) Equipped with a micro-printer, can directly print the test values, convenient and efficient;
- 4) Good compatibility, can test a wide range of glass bottle height, good applicability;
- 5) Good appearance, using 304 stainless steel and aluminum alloy materials, strong and durable.

**Comparison Chart:**

T1		T1-Stress level 1
T2		T2-Stress level 2 If continuous tests are level 2, notify the operator to follow up
T3		T3-Stress level 3 Immediately notify the operator to deal with it Keep track of stress changes and take appropriate measures
T4		T4-Stress level 4 All waste disposal on the mesh chain including the glass bottles on the conveyor belt Immediately notify the operator and take appropriate measures by closely following the stress changes. Detain bottles between the previous pass and the current pass.
T5		T5-Stress level 5 All waste disposal on the mesh chain including the glass bottles on the conveyor belt Immediately notify the operator and take appropriate measures by closely following the stress changes. Detain bottles between the previous pass and the current pass.

**Technical Parameters:**

Resolution:	±0.1°
Bottle Type:	Glass bottle
Bottle diameter:	≤150mm(other height by ordering)
Bottle height:	≤380mm(other height by ordering)

Accuracy:	$\pm 1^\circ$
Polarization field diameter:	$\leq 200\text{mm}$
Difference in optical range:	565nm
Polarization:	$\geq 99\%$
Stress level:	1-5 level
Stress value:	0-228
Power Supply:	AC220V, 50Hz

**Related products:**

		
<p>CanNeed-MBT-300 Hall Effect Thickness Gauge(Magnetic Bottle Thickness Gauge)</p>	<p>CanNeed-VLT-100 Vertical Load Tester</p>	<p>CanNeed-GIT-200 Glass Bottle Impact Tester(Digital)</p>
		
<p>CanNeed-ABPT-1000 Automatic Ramp Pressure Tester</p>	<p>CanNeed-VAT-500 Perpendicularity tester for bottle(Digital)</p>	<p>CanNeed-SFAT-200 Static Friction Angle Tester(Digital)</p>