



## T-Gauge®



### **A Non-Contact, Non-Nuclear, Multi-Layer, Single Sensor Measurement Solution for Plastics and Foams**

## Terahertz Gauging for Process Control

T-Gauge® is a revolutionary multi-layer thickness gauge for the plastics industry.

With a single reflection sensor, T-Gauge can measure single and multi-layer thickness, density and delamination.

It provides online control of the manufacture of webs, sheets, pipes, tubes, molded components and rigid or flexible barrier packaging.

Handheld solutions are available for at-line or laboratory use.

Based on pulsed terahertz technology, the TeraMetrix T-Gauge represents a significant improvement in your ability to measure, control and optimize your process to minimize cost and maximize your product's value.

## FEATURES

- High accuracy measurement of multi-layer thickness
- Single sensor measurement of foam density
- Calibration free measurement of total product thickness
- High speed measurement capability (up to 1000 Hz)
- Industrialized system components; designed for the factory environment
- Easily integrated into manufacturing control system
- Completely safe; no regulatory overhead
- Optional external interface for alarms, triggers and encoders
- Tolerant of environmental conditions

## APPLICATIONS

- **Plastic Extrusion:** TPO roofing, plastic pipe, multi-layer for thermoforming, fuel tanks
- **Foam products:** Polyiso foam board, foam adhesive, SOFI, foam plates and cups
- **Thin Wall Packaging:** Barrier layer measurement, clear and opaque preforms, single-serve capsules, blow molding, injection molding, thermoforming, co-injection, compression molding
- **Rubber:** Multi-layer EPDM, textile and steel cord tire ply, innerliner, calender control
- **Coating thickness:** Paint application, coated steel pipe, adhesive application

## ORDERING INFORMATION

For a demonstration or more information, please contact:

[terahertzsales@lunainc.com](mailto:terahertzsales@lunainc.com)

734.864.5620

[www.terametrix.com](http://www.terametrix.com)

PARAMETERS	SPECIFICATIONS	UNITS	COMMENTS
Thickness Accuracy	<1	µm	depends on measurement rate
Measurement Rate	100 or 1000	Hz	
Spot Size	2	mm	
Umbilical	5 - 45	m	configurable
Weight	18.2	kg	
Dimensions (L x W x H)	17.5 x 21.5 x 7.5	in	
Operating Temperature	0 - 50	°C	
Operating Humidity	20 - 90	%	relative humidity, non-condensing

### Industry Leading Regulatory Compliance

The T-Gauge® has been certified by Underwriters Laboratories, has received the CE mark, is fully compliant with FDA CDRH laser safety regulations, and has been tested to meet FCC part 18 regulations.

