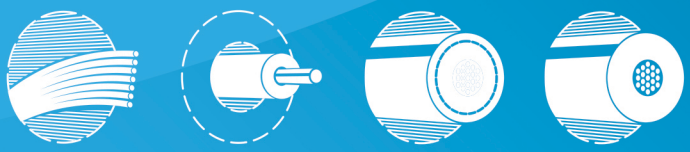
PURETRONICS

Purely Global

LASER DIAMETER GAUGE

Non-Contact Measurement & Online Control



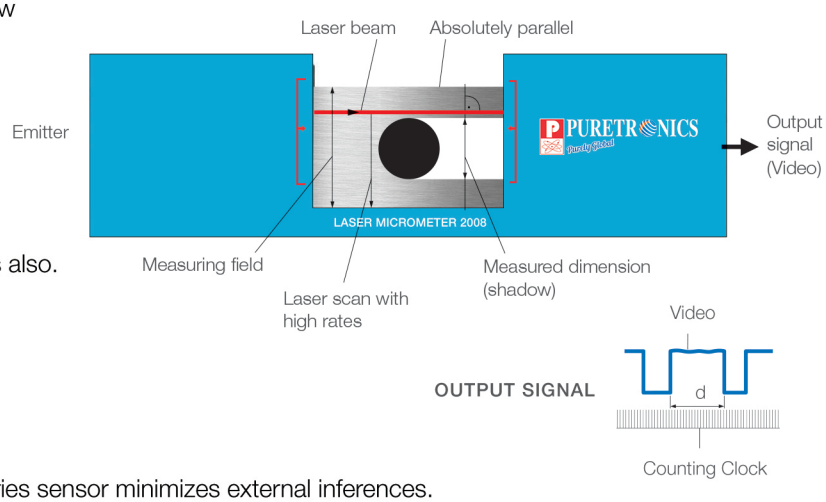


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NON-CONTACT MEASUREMENT TECHNOLOGY

Laser series gauges through laser scanning measurement principal is the core technology for the device. A focused low power laser at high scanning rates through a measurement window across the object is the basic technique to accurately measure the product.

- The material, temperature and colour doesn't influence the measurement.
- The device is designed to measure transparent objects also.
- Specially crafted lens to maintain the accuracy and repeatability of the device.



Features and Benefits

- Using an advanced digital signal processor, LASER series sensor minimizes external inferences.
- High accuracy and low drift measurements
- Rugged case construction sealed for longer life
- Flexible communication integration RS232/RS485 and other based on request.
- It is less sensitive to product vibration and movements
- Digital outputs for integration like Alarm to notify errors through audio visual means.
- Analogue output for further integration with machine for feedback and corrective action.

TECHNICAL SPECIFICATIONS

MODEL	LASER 2008	LASER 2008B
		
Measurement Range	0.8 - 35mm	1.0 - 150mm
Gate Size	50 mm	190 mm
Scan Velocity	156 mts/sec	210 m/s
Resolution	1 micron	10 micron
Repeatability*	± 2 micron	± 20 µron
Accuracy*	± 2 micron or ± %0.1 of reading value	± 20 micron or ± %0.1 of reading value
Scan Rate	416 Scan/sec	416 Scan/sec
Operating Temperature	0 - 50° C	0 - 50° C
Relative Humidity	0 - 95% non Condensing	0 - 95% non Condensing
Power Supply	85VAC to 285VAC	85VAC to 285VAC
Dimension (W x H x D)	385Wx 150 Hx 82 Dmm	820 x 365 x 82 mm
Power Consumption	Less than 10 Watt	Less than 10 Watt
Weight (approx)	4.760 kg	13.240 kg
Communication	RS 232/ 485	RS 232/485

APPLICATIONS

The list of all possible applications and specific benefits of the various Puretronics systems is practically endless. The following represents some of the most typical applications:

CABLE INDUSTRY

- Diameter & ovality measurement / control
- Average wall thickness
- Width/Height
  - – Bare wire
  - – Cores
  - – Bundles
  - – Fillers
  - – Jackets
  - – Sectors
  - – Flat cables
  - – MV and HV cables
  - – Automotive cables
  - – Data cables
  - – Optical fibres
  - – Coatings

WIRE DRAWING

- Diameter & ovality measurement / control
- Turbo Air Guard
- for dry lubrication
  - – Wet lubrication
  - – Dry lubrication
  - – Copper wire
  - – Steel wire
  - – Steel cord
  - – Special wires
  - – Profile wires
  - – Optical fibres
  - – Coatings

PLASTIC & RUBBER EXTRUSION

- Diameter & ovality measurement / control
- Width/Height
- Multi strand
  - – Tubing
  - – Tubes
  - – Hoses
  - – Large tubes /pipes
  - – Profiles
  - – Ribbons
  - – Multi strands
  - – Blown Film Diameter

MEDICAL,COSMETIC, FOOD, PACKAGING

- Diameter & Ovality
- Multi strand
  - – Hoses
  - – Rods
  - – Tubes
  - – Blown film diameter
  - – Sausage casings

COMMUNICATION AND NETWORK

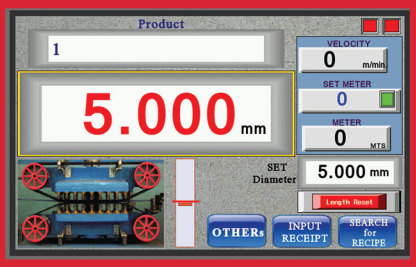
The LASER 2008 series offer multiple integration options through different ways in order to fulfil the requirements like remote monitoring, data logging which are essential parts to manufacturing. With default communications output, the product is complaint with INDUSTRY 4.0 standards thus meeting the new growing needs of the customer.

PC Based Software

All the LASER 2008 series gauges are compatible with custom made PC Based software which communicates deeper insights to the user. A user-friendly software with simple run menus and instinctive access to functions and data display, generate trendy results and log critical product measurement data.

HMI Extension

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PC Based Software



HMI Extension

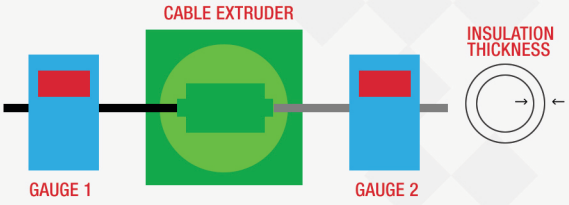
APPLICATIONS



APPLICATION 1

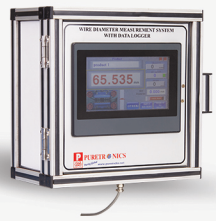


APPLICATION 2

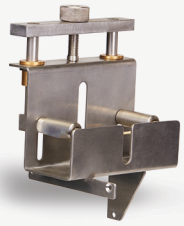


APPLICATION 3

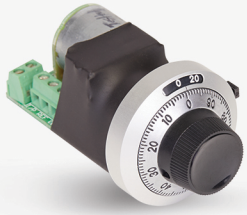
ACCESSORIES



HMI DISPLAY



GUIDE ROLLERS



AUTO CORRECTION POT



STAND LASER 2008



ROTATING STAND



STAND LASER 2008 B



EXTRA DISPLAY

"MEASUREMENT OF TRANSPARENT &TRANSLUSCENT PRODUCTS BASED on special request."

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