

# DIMETIX USA

Exclusive USA distributor for DIMETIX AG



A Laser-View Technologies company

## Capabilities Statement

DIMETIX USA provides laser distance sensors and accessories, laser-sensor based turnkey solutions, and technological expertise for a wide range of industrial measurement and control applications

## Key Laser Features



- ▶ 0.05–500 m range
- ▶ 0.1 mm resolution
- ▶ 1.0 mm accuracy
- ▶ Digital/analog/serial
- ▶ Class II eye-safe laser
- ▶ IP 65 protection class

## Core Competencies



Distance & Position



Industrial Automation



Crane Position & Collision Monitoring



Silo & Storage Bin Level



Coil Size & Handling



Roll Diameter & Width



Engineering & Structural Monitoring

## Differentiators

- ▶ Indoor/outdoor use
- ▶ Heater option
- ▶ Economical & rugged
- ▶ No moving parts
- ▶ Non-contact
- ▶ Natural surfaces

## Company Snapshot



Phone: 484-212-0636 | Fax: 206-338-4281



[www.dimetix-usa.com](http://www.dimetix-usa.com)



[info@dimetix-usa.com](mailto:info@dimetix-usa.com)



Mailing:

PO Box 195  
Lionville, PA 19353

Physical:

205 Byers Road  
Chester Springs, PA 19425

## Where to Buy DIMETIX USA

Company	Territory	Contact Info
DIMETIX USA	National	484-212-0636 <a href="mailto:info@dimetix-usa.com">info@dimetix-usa.com</a>
Laser-View Technologies	National	610-497-8910 <a href="mailto:info@laser-view.com">info@laser-view.com</a>

### Distribution

GSA Advantage!	National	<a href="http://www.gsaadvantage.gov">www.gsaadvantage.gov</a>
Global Industrial	National	<a href="http://www.globalindustrial.com">www.globalindustrial.com</a>

### Sales Representatives

PTP	PA (except SE), NY, NJ (North)	917-580-0878 <a href="mailto:scott@pratertechnical.com">scott@pratertechnical.com</a>
CTG	AL, FL, GA, MS, TN	334-322-5617 <a href="mailto:jbagleyctg@outlook.com">jbagleyctg@outlook.com</a>
Copley Controls	OH, MI, IN, KY	330-666-8174 <a href="mailto:info@copleycontrols.net">info@copleycontrols.net</a>
MEC	MN, ND, SD, WI	952-224-3600 <a href="mailto:info@mec-inc.biz">info@mec-inc.biz</a>
NE Tech Reps	New England	401-465-1652 <a href="mailto:sales@netechreps.com">sales@netechreps.com</a>
PICs	PA (SE), NJ (South), DE	610-644-7701 <a href="http://www.picscontrols.com">www.picscontrols.com</a>

### Specialty Representatives

Will Webb Assoc.	IN (Steel Mills)	219-926-9995 <a href="mailto:wwainc@frontier.com">wwainc@frontier.com</a>
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## Past Performance



US Army Corps of Engineers



You have a multitude of displacement sensor options. DIMETIX USA lasers are better. Here's why:

**Dimetix laser advantages**

- ▶ Long range: 0.05–500 m range
- ▶ High accuracy: Up to 1.0 mm accuracy
- ▶ High sensitivity: 0.1 mm resolution
- ▶ Communications options: Digital/analog/serial
- ▶ Safety: Class II eye-safe laser
- ▶ Durability: IP 65 protection class

**DIMETIX USA distributor/partner advantages:**

- ▶ Large selection in stock locally
- ▶ US-based technical support
- ▶ Added value products and options available
- ▶ Extensive technical/sales training & resources
- ▶ Expanding sales, partner & distribution network
- ▶ Attractive pricing/discount structure

**Sensor selection comparison:**

Sensor	Range	Accuracy	Noncontact?	Environment	Cost	Strength	Weakness
Hall Effect Sensor	Short	On or off	Yes	Standard	Low	Cost, noncontact	Range, accuracy, interference
Encoders	Variable	Variable	Yes/No	Standard	Variable	Range	Impractical for long range
Potentiometers	Long	Medium	No	Standard	Low	Cost	Accuracy, physical contact
Linear/Rotary VDTs	Limited	High	No	Harsh	High	Accuracy, environment	Range, cost, physical contact
Eddy-Current Probe	Short	Medium	Yes	Harsh	Medium	Environment	Range, accuracy
Ultrasound	Long	Variable	Yes	Standard	Variable	Noncontact	Environment, temperature/angle
Photoelectric Sensors	Long	Variable	Yes	Standard	Variable	Noncontact	Line of sight required
Dimetix Laser Sensors	Long	High	Yes	Harsh	Medium	Range, accuracy, environment, noncontact	Line of sight required

**Competitive example:**

	Competing Sick laser sensor	Dimetix FLS-C10
Measuring range	0.15 m ... 300 m on "Diamond Grade" reflective tape	0.5 m ... 65 m natural surface 0.5 m ... 500 m with Dimetix reflective target plate
Resolution	0.1 mm, 0.125 mm, 1 mm, 10 mm, 100 mm	0.1 mm
Repeatability	2 mm <sup>1)</sup>	±0.3 mm
Accuracy	± 3 mm <sup>2)</sup>	±1.0 mm
Output time	Synchronous to PLC request (interface dependent)	10 Hz standard; up to 200 Hz in the fastest mode
Light source	Laser, red <sup>3)</sup>	Laser, red
Laser class (EN 60825-1 / CDRH)	2	2
Laser spot size (@100 m)	1000 mm x 1000 mm	30 mm x 18 mm
Max. movement speed	30 m/s	10 m/s
Internal measurement cycle	1 ms	10 Hz standard; up to 200 Hz in the fastest mode

<sup>1)</sup> Statistical error 1 σ, environmental conditions constant, min. warm-up time 10 min; <sup>2)</sup> From 150 mm ... 180 mm measuring range the accuracy can reach ± 4 mm; <sup>3)</sup> Average service life: 100,000 h at T<sub>U</sub> = +25 °C.

