

Non-Contact, Continuous Level and Positioning
Using LASER Measurement Beyond the Point
Where Other Technologies Stop.

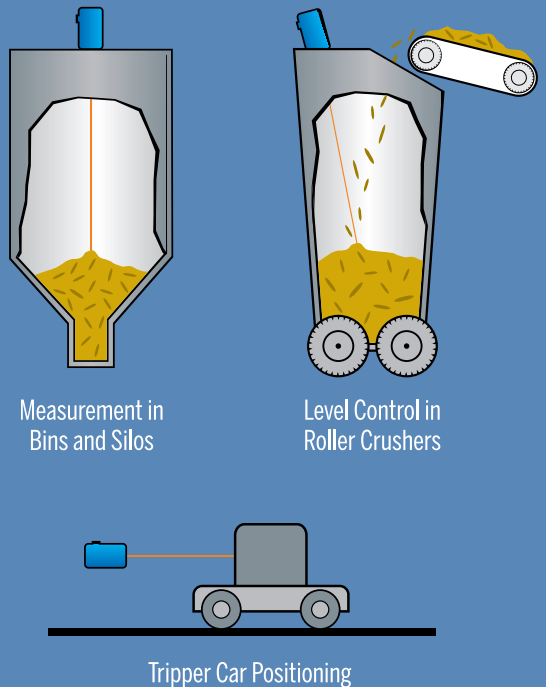
Light Years Ahead
in Level Detection Transmitters for Solids

MAJOR LASER APPLICATION ADVANTAGES

- Non-Contact, Continuous Measurement
- Does Not Depend on Air Temperature, Pressure, Ambient Noise
- Lasers are Not Affected by Dielectric Constant
- Narrow Beam Ensures Accurate Measurement in Conic Bottom Silos
- Measure Great Distances Up to 1300 ft (450 m) for Positioning Applications
- Optional High Temperature/High Pressure Sight Glass for Continuous Measurement in Reactor Vessels
- Over 10,000 Installations Worldwide

Typical Laser Applications

- INVENTORY IN SILOS
(GRANULAR PLASTICS, GRAIN, COAL, WOOD CHIPS, AGGREGATE)
- LEVEL CONTROL
(CRUSHERS)
- VOLUMETRIC MEASUREMENT
(STOCK PILES, SILOS, BELT CONVEYORS)
- REACTOR VESSELS
- POSITIONING
(OVERHEAD CRANES, TRIPPER CARS)
- VARIOUS DRY BULK SOLIDS AND OPAQUE LIQUIDS IN SILOS



	LM™ 80	LM™ 200	SS 140XP	LM™ 2D	LM™ 3D
PROCESS MEASUREMENT	Level (Solids, Opaque Liquids) Position	Level (Solids, Opaque Liquids) Position	Level (Solids, Opaque Liquids)	Volume (Solids)	Volume (Solids)
MEASURING RANGE	100 ft (30 m) Level 500 ft (150 m) Position	200 ft (60 m) Level 1312 ft (400 m) Position	240 ft (75 m) Level	33 ft (10 m)	115 ft (35 m)
BEAM DIVERGENCE	<0.5°	<0.2°	<0.2°	<0.2°	<0.2°
LASER POINTER	Optional for Level Built-in for Positioning	Built-in Standard	Built-in Standard	Built-in Standard	Built-in Standard
ENCLOSURE	Dual Compartment Aluminum or Stainless Steel IP66, NEMA 4X		Dual Compartment Powder-Coated Aluminum or Stainless Steel, Explosion Proof Rated, IP67, NEMA 4X	Dual Compartment Powder-Coated Aluminum, IP65	
RESOLUTION	+/- 0.4 in. (10 mm)	+/- 0.4 in. (10 mm)	+/- 0.4 in. (10 mm)	N/A	N/A
ACCURACY	+/- 1 in. (25 mm)	+/- 1 in. (25 mm)	+/- 1 in. (25 mm)	Volumetric 0.5% to 1.5% Typical	Volumetric 1% Typical
POWER	16-32 VDC	110/220 VAC or 16-32 VDC	16-32 VDC	24VDC @1.5A	24VDC @1.5A
OUTPUT	4-20mA Active, NAMUR Compliant	4-20mA Active, Isolated NAMUR Compliant	4-20mA, Current Sync, NAMUR Compliant	4 Dedicated 4-20mA Active NAMUR Compliant	4 Dedicated 4-20mA Active NAMUR Compliant
COMMUNICATION	RS232 for Set-Up and Troubleshooting	RS232 for Set-Up and Troubleshooting	HART	RS232 for Set-Up, Troubleshooting and Monitoring	RS232 for Set-Up, Troubleshooting and Monitoring
SWITCHING OUTPUT	2x SPST Programmable Relays 1 Amp		No Relays		1XSPST Relay
OPTICAL APERTURE— MIN. PROCESS OPENING	3 in. (75 mm)	4 in. (100 mm)	3 in. (75 mm)	3 in. (75 mm)	3 in. (75 mm)
LASER SAFETY	Class 3R				
APPROVALS	FM Cl1 Div 1 & 2 Gr A,B,C,D DIP CL II/III Div 1 GP E,F,G ATEX Ex nA nC II T4 Ex tD A21 IP66 T85°C	DIP Cl II/III Div 1 Gr E,F,G	FM Cl1 Div 1 & 2 Gr A,B,C,D DIP CL II/III Div 1 GP E,F,G (Pending)	N/A	N/A

REPRESENTED LOCALLY BY:



18321 Swamp Rd. • Prairieville, LA 70769
225.673.6100 • TOLL FREE: 800-735-5835
FAX: 225.673.2525 • sales@ktekcorp.com
www.ktekcorp.com

CBR-00023 Rev b (05-2008) DCN #0212



THE DIRECTION IN LEVEL DETECTION!



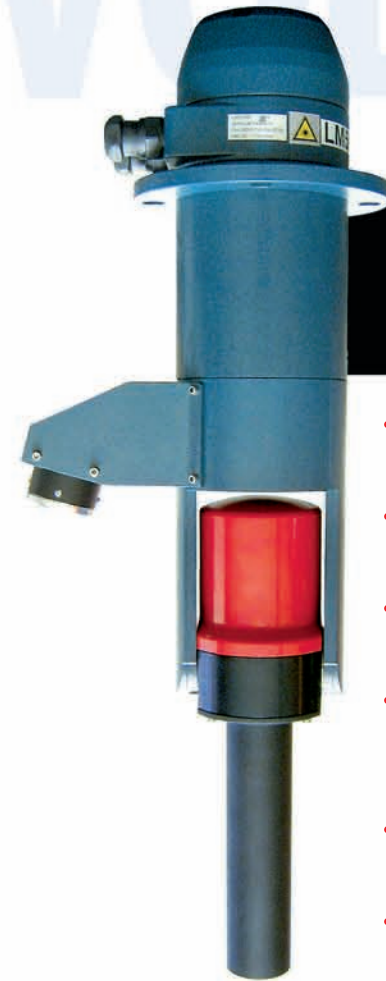
The Worldwide
Leader in LASER
Level Detection

K-TEK is a leading global manufacturer of state-of-the-art instrumentation for liquid and bulk solids level detection. The company has over 250,000 installations worldwide in such applications as oil and gas production, chemical processing, pulp and paper processing, mining and construction, food and beverage manufacturing, plastics manufacturing, and power generation. K-TEK operates offices, service locations, and research and development facilities around the world.

K-TEK focuses its extensive engineering, manufacturing and applications expertise exclusively in the area of level measurement. Year after year, the company pushes the leading edge of technological innovation. With its consistent commitment to R&D, it boasts one of the largest investment per revenue ratio of any level company in the world.

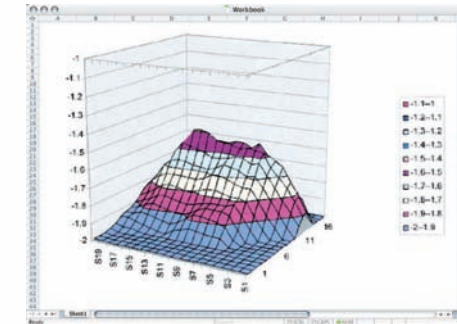
K-TEK is also committed to the highest degree of product quality and customer service, which is exemplified in the solutions-oriented approach that is taken with each individual customer. K-TEK is set apart from the competition by its ability to design and manufacture equipment for some of the toughest industry applications. With the introduction of LaserMeter™80, the first low-cost, all digital design laser level and distance transmitter, K-TEK is assured to continue its advancement over the competition.

VOLUMETRIC



LaserMeter™ 2D Conveyor Belt Scanner

- Belt Scale Replacement Alternative
- Non-Contact Conveyor Volume and Speed
- Simple Installation During Conveyor Operation
- Totalizer Functionality for Real Time Throughput Mass Calculation
- Integral Non-Contact Belt Speed Sensor
- Integral Laser Pointer for Alignment

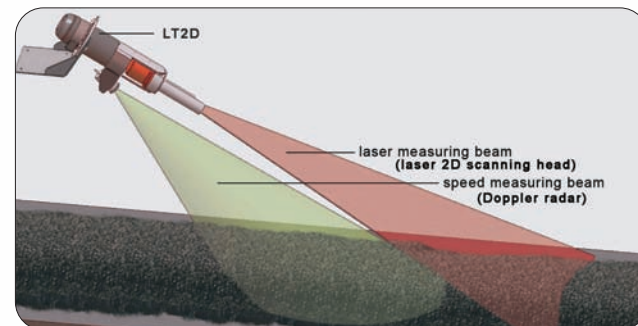


Sampling of Graphic Output from LaserTrak™ 3D



LaserMeter™ 3D Volumetric Measurements Silos and Stock Piles

- Diagonal Measuring Range: 5 ft (1.5 m) to 115 ft (35 m)
- Non-Contact Three Dimensional Dry Bulk Material Profiling in Silos and Stock Piles
- Volume Measurement and Mass Calculation
- Easy Installation and Set-Up
- Rugged and Robust Housing
- Laser Pointer for Alignment
- Integral Dust Tubes



INDUSTRIES SERVED

PLASTICS • FOOD and BEVERAGE • CHEMICAL • POWER GENERATION
PHARMACEUTICAL • MINING • STONE, SAND and GRAVEL • PULP and PAPER



LaserMeter™ 80 Intermediate Range Laser Transmitter

- Long Range – Up to 100 ft (30 m) – Level
Up to 500 ft (150 m) – Positioning
- No Beam Divergence = No False Echoes
- Measures Any Surface at Any Angle with Narrow Beam
- Rugged Enclosure with Built-In Flange for Easy Installation
- Ideal for Plastic Pellets, Grain Silos, Indoor Positioning
- Optional Heated Glass to Eliminate Condensation Build-Up on Optics

Stainless Steel Dust Tube—
Also Available with an
Electropolished Finish for
Sanitary Applications

LaserMeter™ 200 High Performance Long Range Laser Transmitter

- Very Long Range – Up to 200 ft (60 m) – Level
Up to 1310 ft (450 m) – Positioning
- No Beam Divergence = No False Echoes
- Measures Any Surface at Any Angle with Narrow Beam
- Built-In Pointer for Accurate Aiming
- Ideal for Coal, Grain Silos, Long Range Outdoor Positioning



Hand-Held Programmer Plugs Directly into the LM™ 80 and LM™ 200 Laser Transmitters



SureShot™ 140XP Explosion Proof, Smart Laser Transmitter

- Range 240 ft (75m)
- No Beam Divergence = No False Echoes
- Measures Any Surface at Any Angle with Narrow Beam
- Explosion Proof Rated
- HART Communications Protocol



The SureShot™ 140XP Comes with an On-Board Graphic Display



SureShot™ 140XP Laser Transmitter

HART
COMMUNICATION PROTOCOL