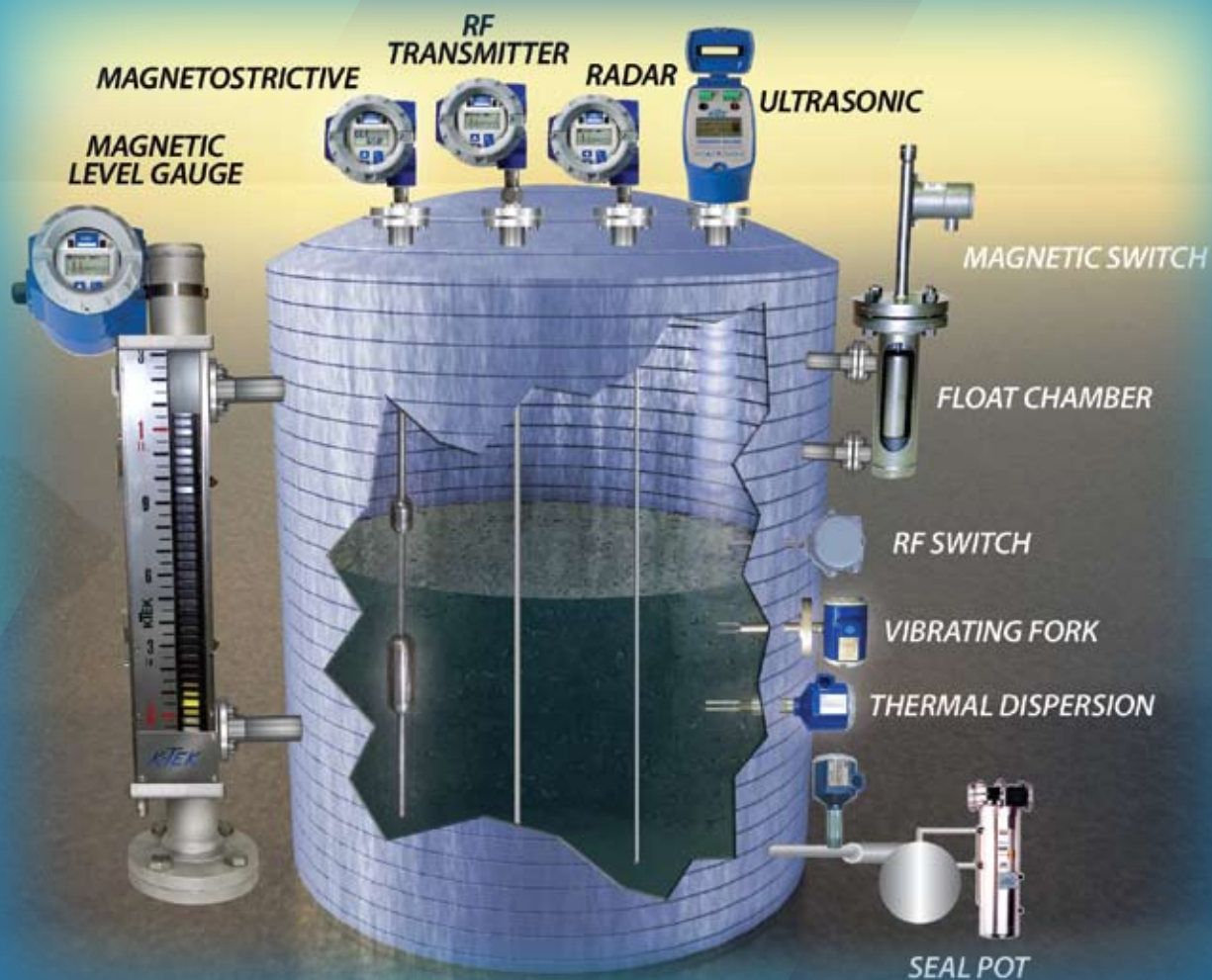


K-TEK

Liquid Level Solutions



THE GLOBAL LEADER IN LEVEL DETECTION



K-TEK Instruments
(Pty) Ltd.



K-TEK Level Eng.
Pvt. Ltd.



K-TEK (Tianjin)
Level Co., Ltd.



K-TEK BV



K-TEK Solids Level



K-TEK Corp.

K-TEK

MAGNETIC LEVEL GAUGES & ACCESSORIES

IEC61508 CERTIFIED

World's FIRST *SIL2 Certified

Magnetostrictive Level Transmitter

AT200
Magnetostrictive
Level Transmitter
shown with
KM26S



MagWave MW05 Dual Chamber Level System

- Redundant level measurement
 - Guided Wave Radar (GWR)
 - Magnetostrictive
- Low cost of ownership
- 5 year warranty
- Highly visible indication

KM26TM Magnetic Liquid Level Gauge

Benefits:

- Low cost of ownership
- Safe and simple installation
- 5 year warranty
- High visibility

Configurations:

- High pressure (4500 psi)
- High temperature (1000°F)
- Extruded outlets
- Engineered floats (>0.25 SG)

AccuTrak
AT200 Compact
Magnetostrictive
Level Transmitter



MS30EXTM Electric Switch

- Hazardous area rating: FM approved and CSA Certified
- Enclosure: hermetically sealed/explosion proof, NEMA 4x/IP56, 1/2" FNPT
- Switching mechanism: reed, AC/DC 1 amp, max process temp 600°F (316°C) with IP option, 1/8" deadband, SPDT



MS40EXTM Electric Switch

- Hazardous area rating: FM approved and CSA Certified
- Enclosure: stainless steel/explosion proof, NEMA 4x/IP56, 3/4" FNPT
- Switching mechanism: cam driven, snap-action; AC: 10 amp DC: 1/2 amp; min process temp -60°F (-51°C) and max process temp 300°F (149°C), 600°F (316°C) with IP option; 13/16" deadband, DPDT
- For high-temperature, vibration and high-corrosive applications



MS41TM Electric Switch (Dual Compartment Housing)

- Hazardous area rating: FM approved; CSA and ATEX Certified
- Enclosure: stainless steel, dual compartment, hermetically sealed, explosion-proof; NEMA 4x/IP56; 1/2" FNPT
- Switching mechanism: cam driven, snap-action; AC: 10 amp DC: 2.6 amp; min process temp -320°F (-195°C) with option and max process temp 300°F (149°C), 1000°F (538°C) with IP option; 15/16", DPDT
- For high-temperature, vibration and high-corrosive applications

ASME
SETTING THE STANDARD

*SIL2 certification valid only at Prairieville manufacturing facility.

AccuTrakTM

IEC61508 CERTIFIED

World's FIRST^{*}
***SIL2 Certified**

Magnetostrictive Level Transmitter

K-TEK

MAGNETOSTRICTIVE LEVEL TRANSMITTERS



AT200
Magnetostrictive
Level Transmitter
shown with KM26S

AT200TM

Magnetostrictive Level Transmitter

- Designed to mount externally to K-TEK's KM26 or other magnetic level gauges
- High accuracy: .01% of full scale
- Superior piezo ceramic sensor (patent #5,473,245)
- Never requires recalibration: set it and forget it

AT100TM

Magnetostrictive Liquid Level Transmitter

- Dual compartment housing with separate field terminal compartment
- Pressure to 3000 psi (207 bar), Std. 1800 psi (124.1 bar)
- Temperature range: -320° F to 800° F (-196° C to 427° C) with options
- HART protocol or Honeywell DE communications available

KM26TM

AT500TM

Compact Magnetostrictive Liquid Level Transmitter for Direct Insertion

- High accuracy - .02%
- Loop powered to 16ft (5m) probe length
- High resolution 4-20 mA output
- High accuracy - .02%

AT600TM

Compact Magnetostrictive Liquid Level Transmitter for Non-Contact

- Designed to mount externally to K-TEK KM26 or other magnetic level gauges
- High resolution 4-20 mA output
- Suitable for high temperature applications
- Calibrates without opening enclosure

*SIL2 certification valid only at
Prairieville manufacturing facility.

AccuTrak AT600 Compact
Magnetostrictive Level
Transmitter

K-TEK

GUIDED WAVE RADAR TRANSMITTERS



MT5000™

State-of-the-Art Loop Powered, 4-20mA Output GWR Transmitter for Liquid Level Applications

- Reliable level measurement over varied process conditions
- Distance 2 to 200 ft. (61 m)
- Temperatures to 800°F (427°C)
- Pressures to 5000 psi (344 bar)

External chamber
used for side
tank mounting



Dual compartment

Modular electronics

Glass window cover



High temperature
extension

MT5100™

State-of-the-Art Loop Powered, 4-20mA Output GWR Level Transmitter for Level and Interface Applications

- The MT5100 provides both lower and upper level fluid indications
- Flooded or non-flooded chambers
- Transmission of interface and upper fluid Signals with the use of the optional RI100 repeat indicator transmitter
- Detection of the presence of a rag layer (patent pending)

Coaxial probe with slotted
groove design provides
maximum signal strength
without the use of an
external chamber



Centering disc



WaveForm display allows
engineer/technician to view
measurements in real-time

LM80 with 4" Tri-Clover
Quick disconnect –
food processing and
beverage industry

LM80 with 4" Tri-Clover
and Heated Optic – food processing
/beverage and pharmaceutical
industry

LM80 with Heated Optic
– water treatment and
chemical industry

K-TEK LASER TRANSMITTERS

Dust tubes are
available in
stainless steel
or aluminum for
dust protection
and long-term
reliability

Hand-held programmer plugs
into LM™80 and LM™200
laser transmitters

LM80™

Versatile, Intermediate Range Laser Level
and Positioning Transmitter

- Long range to 500 ft. / 150 m (positioning applications)
and up to 100 ft. / 30 m (level applications)
- Measures any surface at any angle with narrow beam
- Easy installation and intuitive setup
- Aiming laser optional

LM200™

High Performance, Long Ranges Laser Level
and Position Transmitter

- Long range up to 200 ft / 60 m (level applications) and
up to 1312 ft / 400 m (positioning applications)
- Measures any surface at any angle with narrow beam
- Rugged and robust enclosure
- Accepts 110/220 VAC and +24VDC input voltages
- Built-in aiming laser

SURESHOT™

Explosion Proof, Smart Laser
Level Transmitter

- Long range - 240 ft (75 m)
- Measure any surface at any angle with narrow beam
- Explosion-proof dual compartment enclosure
- HART protocol
- Built-in aiming laser

► The SureShot™ 140XP
comes with an on-board
graphic display



K-TEK

ULTRASONIC TRANSMITTERS & SWITCHES



KSONIK

KSONIK™ MICRO Loop Powered Ultrasonic Level Transmitter

- Up to 16 ft. / 5 m measuring range
- Low cost, compact level transmitter with integral transducer
- Four digit alpha-numeric display
- Auto variable power control for difficult applications
- PVDF wetted parts for corrosive applications

KSONIK

KSONIK™ MICRO COMPACT Ultrasonic Level Transmitter

- Up to 13 ft. / 4 m measuring range
- Low cost, compact level transmitter with integral transducer
- Temperature compensation
- PVDF wetted parts for corrosive applications

KSONIK

KSONIK™ MICRO Ultrasonic Level Transmitter and Switch

- Up to 32 ft. / 10 m measuring range
- Low cost, compact level transmitter with integral transducer
- 128 x 64 dot matrix display
- Open channel flow measurement
- Auto variable power control for difficult applications
- PVDF wetted parts for corrosive applications
- Continuous level transmitter and level switch
- Trend recorder

Model | K10

Model | K10F

Model | K20

Model | K20H

Model | K60

Ultrasonic Transducer Series

Model | K10T3



KSONIK

KSONIK™ I Short Range Ultrasonic Level Transmitter

- Range to 50 ft. / 15 m
- Graphic LCD display
- Integrated KSCOPE software
- Automatic variable GAP for difficult applications
- Open channel flow
- Trend recorder



KSONIK

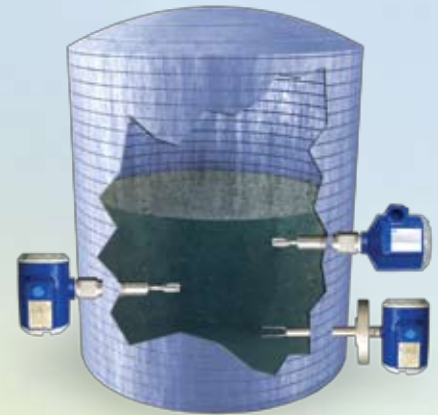
KSONIK™ III Long Range Ultrasonic Level Transmitter

- Long range up to 195 ft. / 60 m
- Graphic LCD display
- Single or dual channel configuration
- Integrated KSCOPE software
- Automatic variable GAP for difficult applications
- Trend recorder

Vibrating Liquid Level Switches Series

K-TEK

VIBRATING FORK LEVEL SWITCHES



Model | **RS85**



Resonator

RS85™

RS85 Multi-Option Vibrating Liquid Level Switch

- Continuous self-test diagnostics
- Extended probe lengths to 120" (3048mm)
- Exotic metal options
- Variety of process connections

Resonator

RS80™

RS80 Vibrating Liquid Level Switch

- Direct replacement for ultrasonic GAP switches, RF capacitance switches, float switches and other technologies
- Immune to low to medium coating or build-up on sensor
- Standard 3/4" MNPT process connection
- Field selectable parameters with external magnet or internal pushbuttons (fail safe, density)

Model | **VF30**



VF30™

Vibrating Liquid Level Switch (Loop Powered Only)

- Any mounting 3/4 inches NPT or larger
- Adjustable time delay (0.1 - 30 seconds)
- Optional special alloy sensors: Hastelloy C-276 or Monel

Model | **RS80**



Principle of Operation

The Resonator utilizes a piezoelectric driven tuning fork that exhibits a large change in resonant frequency when immersed in any liquid. A "smart" microprocessor-based electronic unit keeps the sensor in a resonant state as it changes from dry to wet or wet to dry.

The resonant frequency is continuously monitored for changes created by a wet or dry sensor and an alarm is provided via a relay.

An important feature of the Resonator is that its resonant frequency is not significantly affected by coating on the fork until the space between the forks is bridged. The Resonator's ability to identify true liquid level in viscous, coating or aerated liquid is unparalleled. The self-test option checks for fault conditions such as crystal damage and excessive product build up on the sensor. Applications include: redundant high/low liquid level without concern for parameters such as specific gravity, dielectric constant or mounting position of the sensor.



K-TEK

RF/CAPACITANCE CONTROLS



KCAP300™

RF Capacitance Switch with KSHIELD™ Sensing Probes & Single Setpoint Electronics

- Liquids and bulk solids
- KSHIELD™ sensing probes and single setpoint
- Electronics that provide immunity to buildup
- Element sensitivity down to 0.5 pF



KCAP400™

RF Capacitance Switch with Dual Setpoint & Pump Control

- Liquids and bulk solids
- Easy setup via external magnet or push buttons
- Wide variety of 2-element sensing probes available up to 1400°F / 3000 psi
- Field selectable modes of operations that include: single setpoint, dual setpoint and pump control



A38™

Loop Powered RF Level Transmitter

- Low cost loop powered, 4-20 mA output
- Integral transmitter with dual compartment housing
- External magnet calibration - no need to open case
- Explosion-proof enclosure, intrinsically safe probes eliminate explosion-proof conduit seal requirement

A75™

Compact All Star II RF Level Switch

- Totally potted electronics
- Vibration resistant
- NEMA 4 enclosure
- 5, 10 or 15 second time delay



A77™

Robust All Star II RF Level Switch

- DPDT relay
- Rugged probe designs
- Explosion-proof enclosure
- 5, 10 or 15 second time delay



A02™

Multi Purpose & High Sensitivity RF Level Switch

- Remote mounting up to 50 ft / 15 m
- Explosion-proof enclosure
- 0 to 30 second time delay
- Temperature compensation

K-TEK

THERMAL DISPERSION LEVEL SWITCHES



TX™

Thermal Dispersion Flow / Level / Temperature Switch (Standard Response Time)

- For liquids, gases and small granular solids
- One switch for gas or liquid flow, liquid level, interface level or temperature
- Explosion proof, no moving parts
- Temperature range of -320°F to 900°F (-195°C to 482°C)
- Pressure to 10,000 psi (689 bar)



IX™

Thermal Dispersion Flow / Temperature Switch (In-Line Unit)

- One switch for either flow or temperature applications
- No moving parts
- 316L stainless steel wetted parts
- Ideal for low flow applications



TS™

Thermal Dispersion Flow/Level/Temperature Switch (Sanitary)

- One switch for gas or liquid flow, liquid level, interface level or temperature
- Designed to 3A standards
- Temperature range of -50°F to 350°F (-46°C to 177°C) standard
- Optional electropolished wetted parts



TQ™

Thermal Dispersion Flow / Level / Temperature Switch (Fast Response)

- For liquids or small granular solids
- One switch for gas or liquid flow, liquid level, interface level or temperature
- 316L stainless steel all welded construction standard
- Temperature range of -50°F to 350°F (-46°C to 177°C) standard



IM™

Thermal Dispersion Flow / Temperature Switch (In-Line Unit)

- No moving parts
- Operating temperature of -50°F to 350°F (-46°C to 177°C)
- Pressure to 2000 psi (138 bar)
- Ideal for extremely low flow applications

K-TEK

BUOYANCY LEVEL SWITCHES

MS50™

MS50 Multi Point Liquid Level Sensor

- Unique magnetic coupling concept
- Switch trip points adjustable without removing vessel from service
- Up to six (6) SPDT switches per unit
- Interface level capability

MS10™

MS10 Electric Level Switch

- Hermetically sealed SPDT switch
- Pressure to 5000 psi (345 bar)
- Choice of international flanges
- Precision fabricated floats

MS8D™

MS8D Electric Level Displacer Switch

- Polypropylene displacer for high pressure applications
- Vibration resistant
- Electrical contacts are magnetically isolated from process
- Hermetically sealed SPDT switch (NO / NC Contact)

MS8F™

MS8F Extended Body Horizontal Electric Level Switch

- Custom insertion length up to 24 inches (610mm)
- Available with polypropylene displacer (MS8D) or stainless steel float (MS8F)
- Electrical contacts are magnetically isolated from process
- Hermetically sealed SPDT switch

LS SERIES™

Mechanical Cage Level Switch

- Rugged and robust chamber design for demanding applications
- One step switch point adjust
- precision fabricated floats and displacers
- Easily retrofitted to most competitor models)

KVIEW100™

KVIEW100 Digital Controller

- MODBUS RTU communications
- Ability to read 8 ea. 4-20 mA inputs and 4 ea. pulse inputs
- Relay outputs with adjustable dead band
- 2 ea. 4-20 mA programmable outputs
- Large transfective display makes it easy to read indoors or in direct sunlight

KVIEW10™

KVIEW10 Digital Controller

- MODBUS RTU communications
- Ability to read and power 4 ea. 4-20 mA input signals and 2 ea. pulse inputs
- Relays with adjustable DB and 4 ea. 4-20 mA outputs
- Large transfective display makes it easy to read indoors or in direct sunlight
- Displays in feet and inches, psi, mA, gpm, or custom units

K-TEK

FIELD INDICATORS & CONTROLLERS



LPM200™

Loop Powered Digital Indicator

- Two ranges of zero and span allows calibration in engineering units
- Operating power derived from current loop
- 2.5 volt maximum voltage drop
- NEMA 4X or explosion-proof versions

DPM100™

Digital Process Monitor

- Accepts 0-5V, 0-10V, 1-5V, 4-20mA or 0-20mA analog signal input
- NEMA 4X and explosion-proof enclosure option
- +24V output available for loop power
- Optional RS422 or RS323 serial communication

IR10™ PP10™

IR10 & PP10 External Relays

- Simplifies field relay implementation
- Easy mounting and installation
- Vibration resistant
- 10 amp contact rating

K-TEK

SPECIALTY LEVEL INSTRUMENTS



AT200VP™

Valve Positioner

- High accuracy .01 % of full scale with patented magnetostrictive sensing technology
- Microprocessor-based
- Never requires recalibration
- Field replaceable module



KM50™

Tank Car Gauging Device

- Provides isolation from tank fluids while gauging
- Temperature range of -50°F to 300°F / -45°C to 149°C
- Pressures to 600 psi / 41 bar
- Measures specific gravities from 0.44 with a single float



ST95™

Seal Fluid Supply Tank

- High visibility, magnetically coupled barrier fluid level indication
- Magnetically coupled high / low level switches available
- Designed for barrier fluid specific gravity requirements
- Used in applications where a 2 to 5 gallon vessel is needed



AT500MD™

AccuTrak AT500MD Drilling Mud Pit Level Transmitter

- High resolution 4-20 mA output - no signal conditioner required
- Rugged design: 3/4 inch schedule 40
- Zero and span setpoints adjust digitally
- Calibrates without opening enclosure



DX80™

DX80 Wireless Transmitter & Receiver

- Eliminate high cost of wiring
- Weatherproof
- DC power required
- Line of sight ranges up to 3 miles with included antenna





Providing Level Solutions: Anytime, Anywhere.

Global Manufacturing Facilities



K-TEK Instruments (Pty) Ltd.
Gauteng, South Africa
+27 11 608 2777



K-TEK Level Eng. Pvt. Ltd.
Mumbai, India
+91 022 4156 6100



K-TEK (Tianjin) Level Co., Ltd.
Tianjin, China
+86 22 5981306



K-TEK BV
Rijswijk, The Netherlands
+31 70 3199700



K-TEK Solids Level
Houston, TX USA
+1(713) 462.7665



K-TEK Corp.
Prairieville, LA USA
+1(225) 673.6100

www.ktekcorp.com

K-TEK
The Leader in Level Detection

K-TEK
18321 Swamp Road | Prairieville, LA 70769
tel: +1(225)673.6100 | fax: +1(225)673.2525
toll free: +1(800)735.5835
sales@ktekcorp.com | www.ktekcorp.com