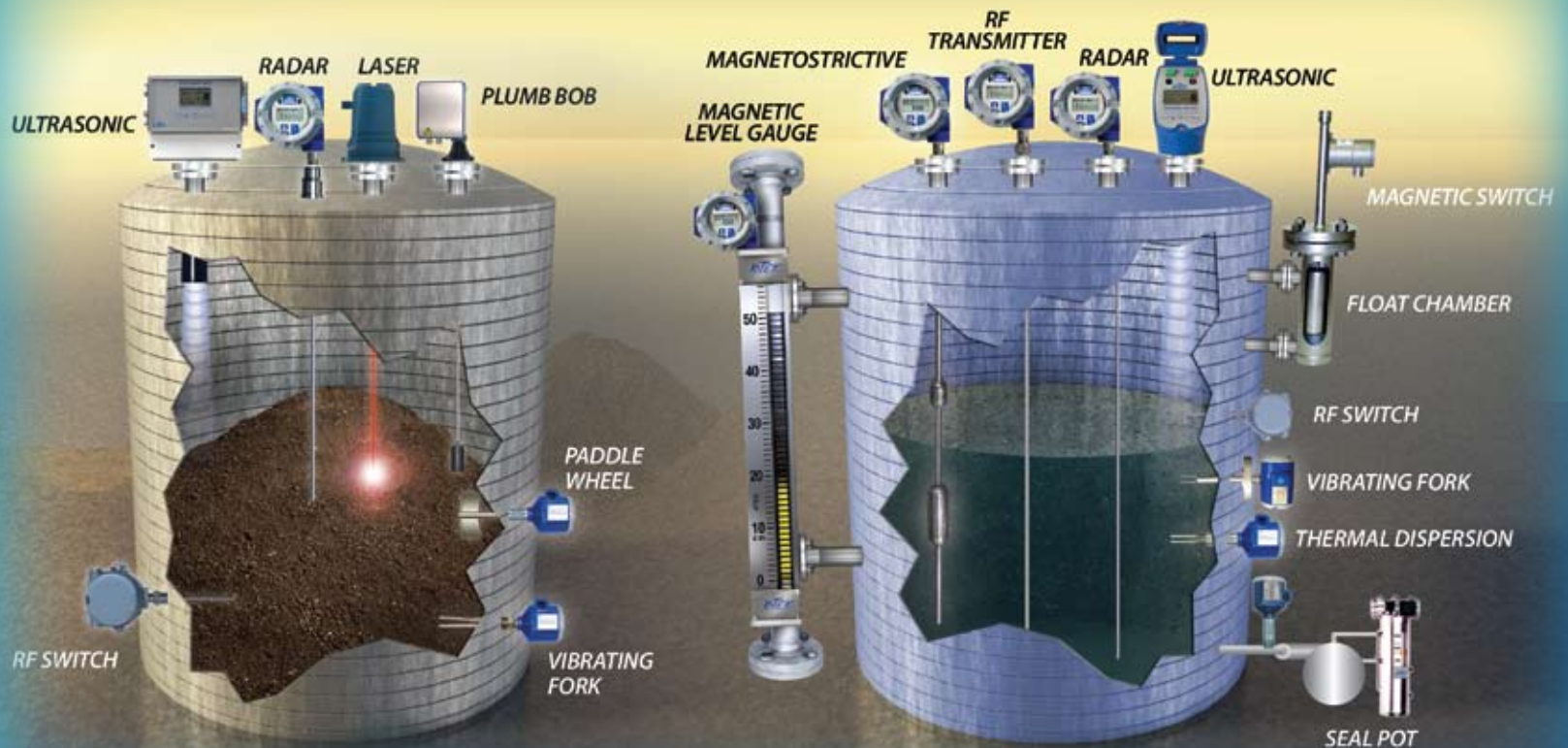


K-TEK

Liquid and Bulk Solids Level



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

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

KM26

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



IEC61508 CERTIFIED

World's FIRST *SIL2 Certified

Magnetostrictive Level Transmitter



MS30EX

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



MS40EX

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



MS41

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

*SIL2 certification valid only at Prairieville manufacturing facility.

AccuTrakTM

K-TEK

MAGNETOSTRICTIVE LEVEL TRANSMITTERS

IEC61508 CERTIFIED

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

Magnetostrictive Level Transmitter

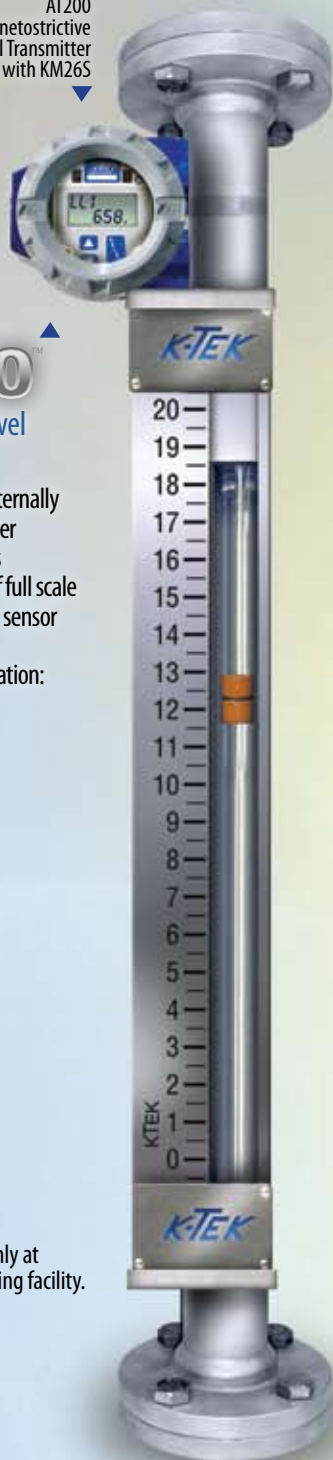


AT100TM

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

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

KM26TM

Magnetic Level Gauge

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



AccuTrak AT600 Compact
Magnetostrictive Level Transmitter

*SIL2 certification valid only at
Prairieville manufacturing facility.

K-TEK

GUIDED WAVE RADAR TRANSMITTERS



MT5000™

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

- SIL2 Suitable
- Reliable level measurement over varied process conditions
- Distance 2 to 100 ft. (30 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

- SIL2 Suitable
- 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

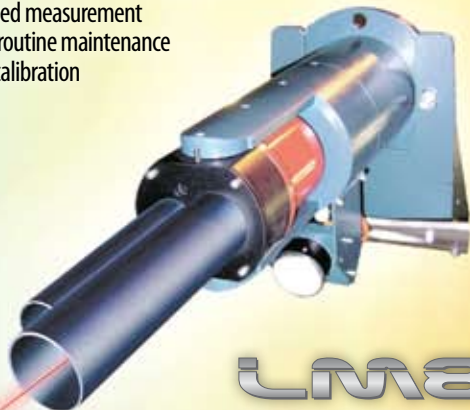


WaveForm display allows engineer/technician to view measurements in real-time

LM2D™

Two Dimensional Laser Scanner for
Non-Contact Volumetric Measurement
of Belt Conveyed Materials

- Non-contact belt scale
- Simple installation during conveyor operation
- Non-contact conveyor volume and speed measurement
- No routine maintenance or calibration



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

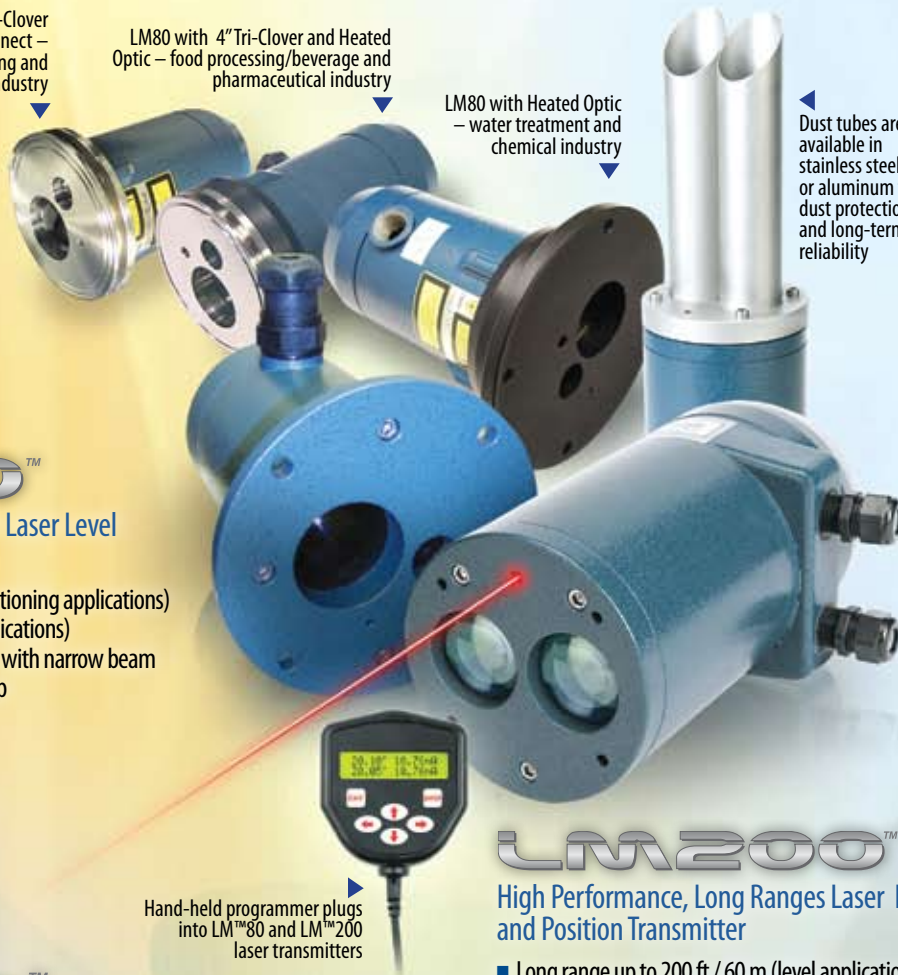
LM80 with Heated Optic
– water treatment and
chemical industry

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

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



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

LM3D™

Three Dimensional Laser Scanner for
Non-Contact Volumetric Measurement of
Bulk Materials in Silos and Stock Piles

- 3D Laser surface profiling
- Integral laser pointer for alignment
- 100ft X 100ft (30m X 30m) scanning area
- Volume & level measurement of any complex
shape
- Inventory measured in less than 5 min



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



LM200™

High Performance, Long Range 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



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



Liquid Level Switch Solutions

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

Model | **RS85**



Model | **RS80**

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

SP60

Vibrating Level Switch Interface Measurement for Solids in Liquids

- Detects solids in water / liquids
- Accepts universal input voltage
- Modular and simple design
- No calibration required



GP50

Vibrating Level Switch for Powders in Granular Solids

- Accepts universal input voltage
- Acceptable for most powders and granulated materials down to 1.3 PCF
- Modular and simple design
- Self cleaning



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 450°F (232°C) / 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





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)

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



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

K-TEK

THERMAL DISPERSION LEVEL / FLOW SWITCHES



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

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)
- Extremely low flow applications



K-TEK

SOLIDS LEVEL MEASUREMENT



SLT™

Electro-Mechanical Continuous Measurement System

- Plumb bob device
- Insensitive to changes in product density, dust in the silo, changes in moisture of the material and products that are inclined to stick
- Available in rope or tape
- Variety of sensor weights
- Robust die cast housing



KP™

Rotating Paddle Switch

- Drop-in replacement for existing rotary paddle switches
- Two 20 amp, SPDT switch
- 120 or 240 operating voltage
- Non-contact, double shielded bearings



CHUTE MASTER™

Non-Contact Microwave Indicator

- Blocked chute detection
- Point level detector
- Not affected by dust or particle build up
- Configurable relay output with on/off delay



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



- 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

MS8D™

MS8D Electric Level Displacer Switch

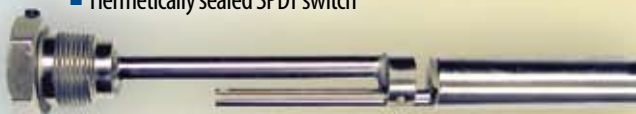
- Polypropylene displacer for high pressure applications
- Electrical contacts are magnetically isolated from process
- Hermetically sealed SPDT switch (NO / NC Contact)
- Vibration resistant



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)



K-TEK

FIELD INDICATORS & CONTROLLERS

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



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



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

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



K-TEK

BETA PRESSURE/TEMPERATURE SWITCHES



W and C Series

BETA Pressure/Temperature Switch

- Worldwide agency approvals
- "User Friendly" Modifications - Standard features incorporated for your safety
- Wide rangeability with 100% accuracy over the full range
- Only 3 process wetted parts
- Very high overrange pressures - No setpoint shift or damage to sensor
- No maintenance

K-TEK

Providing Level Solutions: Anytime, Anywhere.

Global Manufacturing Facilities



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