

Direct-Contact
Point Level Measurement

Straight to the Point Level Detection for Solids

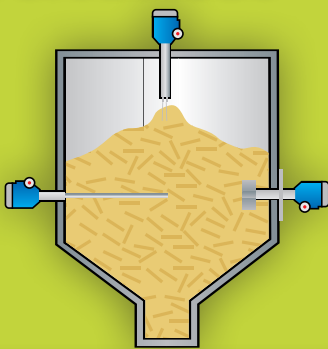
MAJOR POINT LEVEL APPLICATION ADVANTAGES

- Rugged designs for industry
- Proven technology
- Wide variety of sensor materials
- Custom lengths available
- Technologies for all types of solids/powders
- Variety of process connections
- Quick delivery
- Technology flexibility ensures the right switch for your application

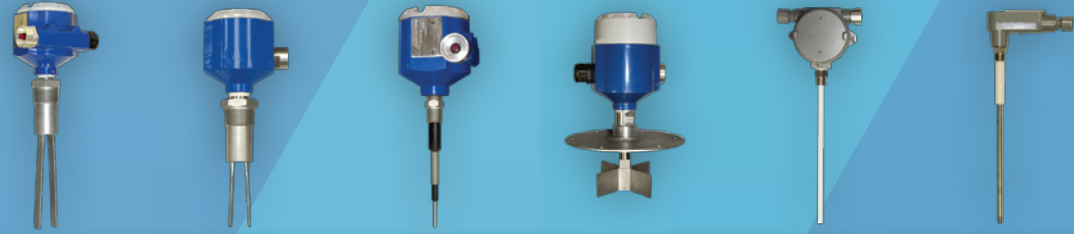
TYPICAL POINT LEVEL APPLICATIONS

- Overfill protection
- Prevent material outage
- On/off control of conveyors
- Control surge bins
- Interface detection
- Plug chute detection

Measurement in
bins and silos



Point Level Series



	GP50™	SP60™	KCAP300™	KP™	A02™	A75™
Process Measurement	Powders/solids level	Powders/solids level in liquids	Solid/liquid level	Powders/solids level	Solid/liquid level	Solid/liquid level
Technology	Vibrating fork	Vibrating fork	Capacitance	Paddle switch	Capacitance	Capacitance
Measuring Range	9 in. (229mm) std., 156 in. (3962mm) max	6½ in. (159mm) std., 156 in. (3962mm) max	20¼ in. (514.35mm) std., 350 in. (8890mm) max	240 in. (6096mm) max	12 in. (305mm) std., 288 in. (7315mm) max	12 in. (305mm) std., 288 in. (7315mm) max
Housing	Single compartment	Single compartment	Single or dual compartment	Single compartment	Single compartment	LB enclosure
Approval	NEMA 4X	NEMA 4X	FM CL1 Div1 Ex. proof	CSA/FM/ATEX XP/DIP CL1 Div1	FM CL1 Div1 Ex. proof	NEMA 4
Sensor Material	316SS	316SS	316SS with Teflon insulators	316SS	316SS with Teflon insulators	316SS with Teflon insulators
Min. Process Temperature	-13°F (-25°C)	-13°F (-25°C)	-40°F (-40°C)	-30°F (-34°C)	-40°F (-40°C)	-40°F (-40°C)
Max. Process Temperature	302°F (150°C)	302°F (150°C)	450°F (232°C)	170°F (77°C)	1400°F (760°C)	1400°F (760°C)
Max. Process Pressure	145 PSI, 10 bar	145 PSI, 10 bar	800 PSI, 55 bar	140 psi/9.7 bar	1500 PSI, 103 bar	1500 PSI, 103 bar
Process Connection	1½ in. MNPT std., 8 in. flange mounting plate	1½ in. MNPT std., 8 in. flange mounting plate	3/4" & 1-1/4" MNPT 1-6 in. flange	1½ in. MNPT std., 8 in. flange mounting plate	3/4" MNPT 1-6 in. flange	¾ in. MNPT
Switching Contacts	One SPDT 4 Amp AC 253 VAC 4 Amp DC 253 VDC	One SPDT 4 Amp AC 253 VAC 4 Amp DC 253 VDC	One DPDT resistive 10 Amp 250 VAC 10 Amp 30 VDC	Two, 20 Amp SPDT	One DPDT 5 Amp AC 240 VAC 5 Amp DC 30 VDC	One DPDT 5 Amp AC 240 VAC 5 Amp DC 30 VDC
Input Power	19-253 VAC 19-60 VDC universal power	19-253 VAC 19-60 VDC universal power	120 VAC / 220 VAC 24 VDC universal power (Pending)	120 VAC 220 VAC	120 VAC / 220 VAC 24 VDC	95-130 VAC 9-35 VDC
Features	Screw-on cover LED alarm display	Screw-on cover LED alarm display	Screw-on cover KSHIELD™ 3-element probes	Screw-on cover Ext. indicator light multiple paddle types	Screw-on cover Time delay	Time delay low cost potted electronics

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Point Level Measurement Detection



Is a leading global manufacturer of state-of-the-art instrumentation for bulk solids and liquids level detection. The company has over 350,000 installations worldwide in such applications as: pulp and paper processing, mining and construction, food and beverage manufacturing, oil and gas production and chemical processing. K-TEK operates offices, service locations, and R&D 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. The company continues to solidify its position as the world leader in level detection by introducing Ultrasonic Level Measurement devices incorporating GAP technology.

INDUSTRIES SERVED

PULP & PAPER
PROCESSING

MINING &
CONSTRUCTION

FOOD & BEVERAGE

MANUFACTURING

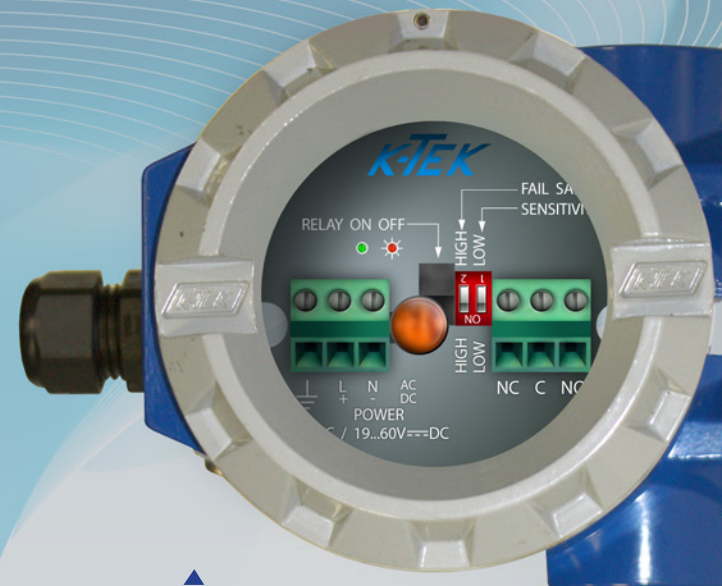
OIL & GAS
PRODUCTION

CHEMICAL
PROCESSING



GP50™ Vibrating Level Switch: Powders and Granular Solids

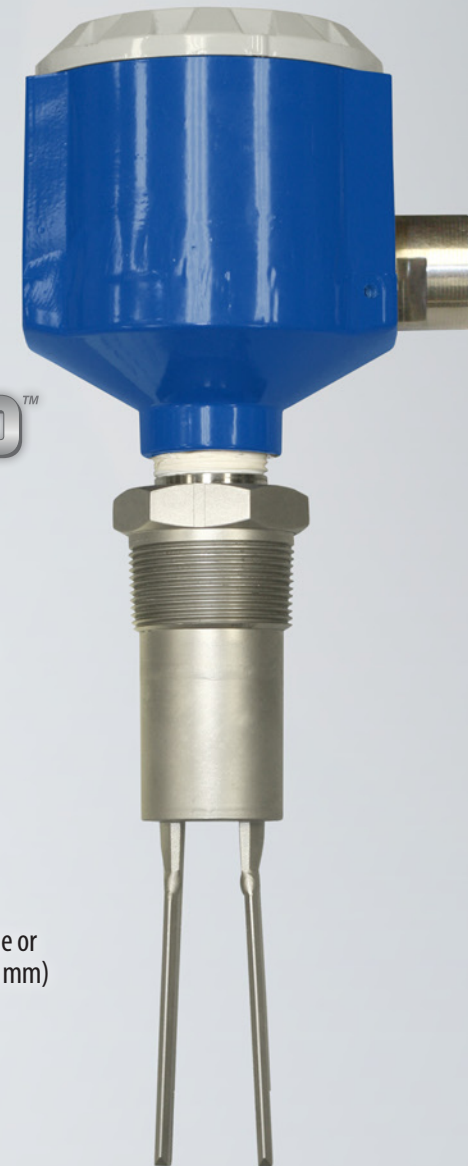
- Accepts universal input voltage
- Robust fork design with patented Piezo crystal sensing element
- Options for mounting plate / flange or extensions to 156 inches (3962 mm)
- Acceptable for most bulk materials
- Modular, simple design
- Maintenance free
- No calibration required
- Self-cleaning



▲ GP50™ & SP60™
electronics module

SP60™ Vibrating Level Switch: Interface Measurement for Solids in Liquids

- Accepts universal input voltage
- Robust fork design with patented Piezo crystal sensing element
- Detects solids in water/liquids
- Modular, simple design
- Maintenance free
- No calibration required
- Self-cleaning
- Options for mounting plate / flange or extensions up to 156 inches (3962 mm)



Point Level Measurement: Straight to the Point



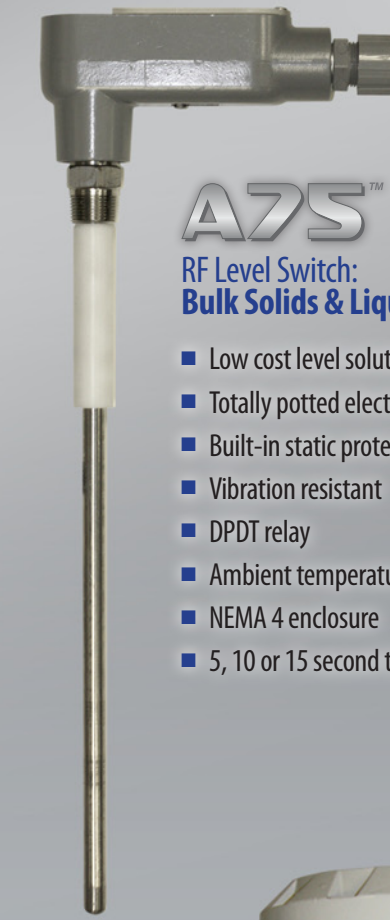
KCAP300™ RF Capacitance Switch: Bulk Solids and Liquid Applications

- Bulk Solids/Powders
- KSHIELD™ 3-element sensing probes and single setpoint electronics that provide immunity to build up
- Integral and remote electronics
- Easy set up via external magnet or push buttons
- Screw-on cover
- Explosion-proof enclosure
- Single point detection
- Element sensitivity down to 0.5 pF
- LED alarm display

◀ 3-element KSHIELD
sensing probe immune to
build-up



▲ Easy set-up via external
magnet or push buttons



A75™ RF Level Switch: Bulk Solids & Liquid Applications

- Low cost level solution
- Totally potted electronics
- Built-in static protection
- Vibration resistant
- DPDT relay
- Ambient temperatures up to 450°F (232 °C)
- NEMA 4 enclosure
- 5, 10 or 15 second time delay



AO2™ High Sensitivity RF Level Switch: Bulk Solids & Liquid Applications

- DPDT relay
- Explosion-proof enclosure
- Built-in static protection
- Integral or remote electronics
- DPDT relay
- Ambient temperatures up to 450°F (232 °C)
- 0 to 30 second time delay
- Switching capacitance of 0.2 picofarads



KP™ Paddle Switch: Bulk Solids Applications

- Low cost level solutions
- 2 20 Amp, SPDT Switch
- Ambient temperatures up to 170°F
- Mounting for side or top of silo / bin
- Screw on cover for easy accessibility
- Shaft lip seal rated to 140 psi / 9.7 bar
- DPDT relay

K-TEK