

INDUSTRY
APPLICATIONS

Oil and Gas

Chemical

Power Generation

Pharmaceutical

Plastics

Mining

Wastewater

Food and Beverage

Stone, Sand and Gravel

Pulp and Paper

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 ratios 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 the 5000 Series of Guided Wave Radar (GWR) Transmitters.



	MT5000	MT5100	MT5200
PROCESS MEASUREMENT	Liquid Level	Liquid Level, Liquid/Liquid Interface Level	Bulk Solid Level
GRAPHIC DISPLAY	Field Selectable Units in Feet, Inches, Millimeters, Centimeters, Meters, or Percentage and Return Signal Waveform Screens		
HOUSING	Dual Compartment Power, Coated Aluminum (Standard) or Stainless Steel		
POWER	13.5 - 36 VDC, Standard and Foundation Fieldbus, 10 – 18 VDC MODBUS		
OUTPUT	Single 4 - 20 mA, HART, Foundation Fieldbus, MODBUS (RTU or ASCII)		
RESOLUTION	+/- 0.0625 inches / 1.6 millimeters		
PROCESS CONNECTION	3/4 inch NPT Standard		
MENU LANGUAGES	English, French, Russian, Italian, Spanish, Portuguese, Chinese (Mandarin)		
ACCURACY	+/- 0.2 in / 5 mm	+/- 0.2 in / 5 mm Upper Level +/- 1.0 in / 25 mm Interface Level	+/- 0.2 in / 5 mm Direct Measurement +/- 1.0 in / 25 mm ULD Mode
APPROVALS	Factory Mutual (FM) and Canadian Standards Association (CSA)		
MEASURING RANGE	2 to 200 ft / 0.6 to 60.9 m	2 to 65ft / 0.6 to 19.8 m	2 to 50 ft / 0.6 to 15.2 m
SENSOR MATERIALS	316 SS, Monel Hastelloy C276 and B3, Titanium	316 SS, Monel Hastelloy C276 and B3, Titanium	316 SS, Monel
PROCESS PRESSURE	Up to 5000 PSI / 344 bar	Up to 5000 PSI / 344 bar	Up to 3000 PSI / 207 bar
PROCESS TEMPERATURE	Up to 800° F / 427° C	Up to 800° F / 427° C	Up to 400° F / 204° C
PROCESS DIELECTRIC CONSTANT	1.4 - 100+	Upper Fluid 1.6 - 5 Lower Fluid 15 - 100+	Directly 3+ ULD Mode 1.3 - 2.5
PROCESS VISCOSITY MAXIMUM	1500 cp	1500 cp	N/A
MISCELLANEOUS SPECIFICATIONS	2000 PSI @ 635° F 138 bar @ 335° C Steam Service	Secondary 4 - 20 mA output via RI100 Repeat Indicator	Bulk Density 50 lb/ft³ Cable Loading 10,000 lbs

REPRESENTED LOCALLY BY:



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THE DIRECTION IN LEVEL DETECTION!



Delivering RADAR
Level Detection
Worldwide



The 5000 Series Guided Wave Radar (GWR) Transmitters are the most flexible level measurement technology on the market.

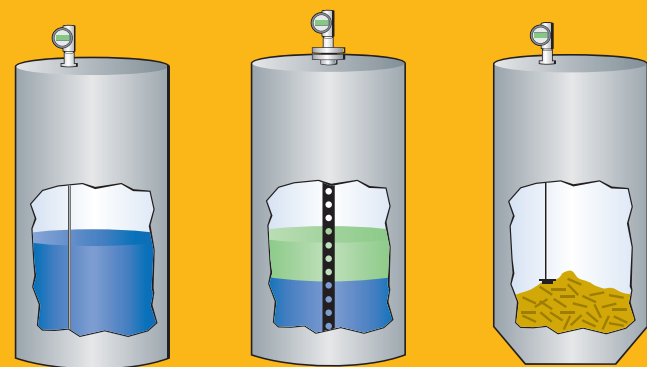
Worldwide Leader

in level detection transmitters for liquids and solids.

5000 SERIES GWR TRANSMITTER FEATURES

- Waveform on display
- Ease of application
- Huge selection of antenna configurations
- Widest selection of process wetted components (antenna)
- Robust in the process environment, no delicate membrane diaphragms
- Pressure ratings to 5000 psig. (344 bar)
- Highest temperature ratings to 800°F (427° C)
- High pressure steam level applications to 2000 psig. (138 bar) at 635° F (335° C)
- Reliable performance on lowest dielectric constant values

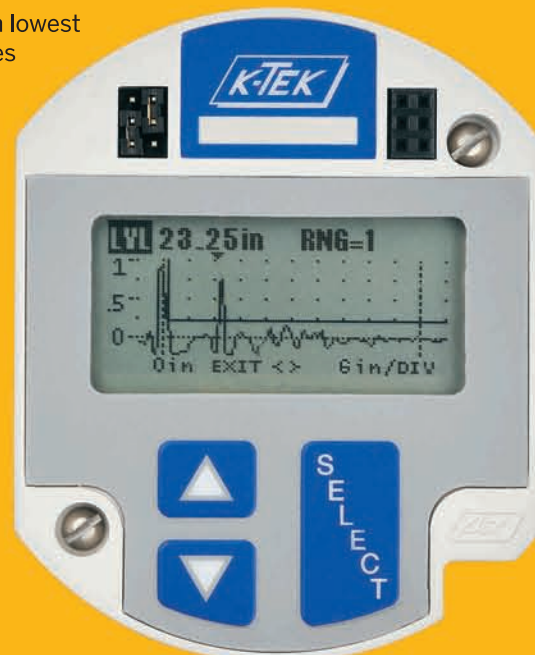
Waveform display allows engineer/technician to view measurements in real-time.



Liquid Levels

Interface Measurements

Solid Levels



MT5000

Liquids, Radar Transmitter

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 feet (61 m)
- Temperature to 800° F (427° C)
- Pressure to 5000 psig. (344 bar)
- Standardization reduces inventory and training requirements.
- Modular electronics

External Chamber, used for side tank mountings

MT5100

Level/Interface, Radar Transmitter

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)

"Centering Disc" for long insertion length alignment



Single probe radar transmitter



MagWave™

Liquid Level Gauge and Radar Transmitter

Dual chamber level system featuring a magnetic level gauge and a state-of-the-art loop powered, 4-20mA output GWR transmitter for liquid and interface applications.

- MT5000 or MT5100 coupled with highly visible Magnetic Level Indication
- Separate Chambers for Unobstructed Magnetic Float Travel
- Single Probe Transmitters reduce the chance of fouling in dirty service
- Extruded pipe outlets provide compact close-coupled chambers

Separate float and radar chambers

MT5200 features a flexible cable for measuring bulk solids



MT5200

Bulk Solids, Radar Transmitter

State-of-the-art loop powered, 4-20mA output GWR level transmitter for bulk solids

- Unaffected by dust
- No moving parts
- Unaffected by feed flow
- Can measure product levels with dielectric constants (ϵ_r) as low as 1.3.