

# RECHNER SENSORS

## SMART PADDLE



The new **Smart Paddle** sensor from Rechner Sensors promises to keep level control easy. This capacitive sensor is designed to work in almost the entire range of dielectric constants (2 to 80) **without adjustment** out of the box. This is all due to the brand new, unique, patent pending sensor design and is 35% less expensive than a standard M30 high performance sensor.

Along with the wide sensing range, this sensor also has the following **features**:

- High Performance function, “**Quattro EMC Protect**” electrical protections
- Made of **food contact** safe material LCP (FDA conforming material)
- Safe for **CIP/SIP** high temperature cleaning (zero-current, 121 °C) for the pharmaceutical industry
- Suitable for **high pressure** (10 bar, 145 PSI)

The advantages are obvious: Easy installation and reliable level control that solves the well-known issues of mechanical systems being used today. No more down time due to false detections caused by material build-up, or material getting stuck between vibrating forks and rotary switches.

**Part number breakdown: KAS-80-P50-A-K-G1/2"-LCP-ETW with 3/4" NPT adapter**

<b>KAS</b>	Capacitive sensor
<b>80</b>	DC PNP (10-35 VDC)
<b>50P</b>	Length of the sensor (50 mm)
<b>A</b>	Antivalent output (1 NO + 1 NC output wires)
<b>G1/2"</b>	Connection type (1/2" BSPP, British Parallel Pipe Thread)
<b>LCP</b>	Housing material (Liquid Crystal Polymer)
<b>ETW</b>	Easy Teach by wire (optional)



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Suitable for thin liquids, powders, and other solids

$\epsilon_r < 2$	$2 < \epsilon_r < 80$ Suitable range without adjustment	$80 < \epsilon_r$
Polystyrene Foam Light Powders Packaging Flakes.....	Insulating Oil ( $\epsilon_r = 2$ ) Plastic Granulate ( $\epsilon_r = 2$ ) Cocoa or Coffee Powder ( $\epsilon_r = 6$ ) Wood Pallets ( $\epsilon_r = 4$ ) Ferrite Granules ( $\epsilon_r = 50$ ) Water ( $\epsilon_r = 80$ )	Adhesive and/or electrically conductive materials. (Metalpowder, Glue, Saltwater, Aluminium Hydroxide Powder.....)

### Viscous Materials

USE a 26-Series sensor

### Conductive Materials

USE the LevelMaster sensor

A variant with Easy Teach by Wire is an option for products where the dielectric constant is outside of the preset range.

