

**SIEMENS**



Weighing technology

# A specialist for extreme applications

SIWAREX WL270 K-S CA: Your load cell for specialized application requirements.

Heavy loads, extreme temperatures, special security demands: our new load cell options are your solution for challenging conditions.



Answers for industry.

# Rugged and safe in a compact design

In the steel, crane, and glass industries, your demands include equipment rated for heavier loads and increased safety. SIWAREX "K" load cells have earned your trust over the past decades for being rugged and meeting your specific application requirements.

Able to weigh loads up to 350 and 500 tons, the new SIWAREX WL270K handles giants while maintaining its compact size.

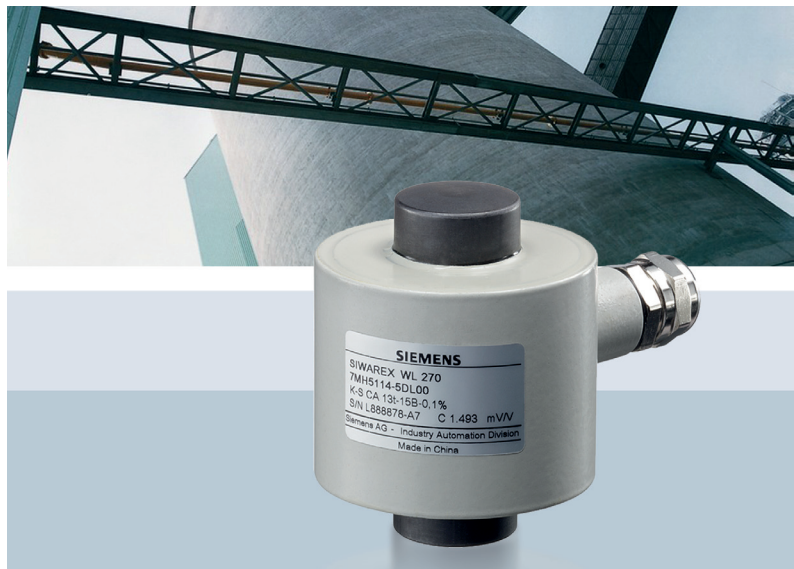
But adding an expanded load range is only one side of the coin. Your applications also have higher demands for safety. Imagine a 1000-ton crane or silo sitting on load cells that you don't trust!

We have increased the safety of your processes with our optional double bridged load cells. Even if one signal stream is damaged, a second (redundant) measurement continues in full operation.

As a weighing component supplier for industry, Siemens knows extreme environmental conditions. Some materials must be heated beyond 100 °C, and the new SIWAREX WL270K can handle your extreme temperatures.

The specially developed strain gauges can be used in temperature ranges from -30 °C to 250 °C without any damage. And of course, all cables and accessories are adapted to these expanded temperature ranges.

SIWAREX WL270K is your choice for a compact load cell in applications with the heaviest loads, extreme temperatures, and where safety is crucial.



### Expanded load ranges

From rated loads of 2.8 tons to some of your heaviest applications, SIWAREX WL270 K-S CA offers options for loads of 350 and 500 tons.

### Use in extreme temperatures

This load cell features options for expanded temperature ranges, from -30 °C to 250 °C for all rated loads. Cables and accessories are appropriately adapted.

### More application security

For rated loads of 13 tons or more, an optional version with a double bridge in the load cell is available. In case one bridge is damaged, the second bridge still works.

### Accessories and mounting units

The fitting mounting unit is a self-aligning bearing unit, which consists of two pressure plates. This allows for horizontal displacements (e.g. temperature variations) while providing optimum load introduction. The bearing unit is also available for the high load options.

### Technical data of the high load options

SIWAREX WL270 K-S CA	Without expanded temperature range	With expanded temperature range		
		-30 °C...150 °C	150 °C...180 °C	180 °C...250 °C
Rated characteristic value $C_n$	1.5 mV/V	$1.5 \pm 0.02$ mV/V	$1.5 \pm 0.1$ mV/V	$1.5 \pm 0.1$ mV/V
Combined error $F_{comb}$	$\leq \pm 0.1$ %	$\leq \pm 0.3$ %	$\leq \pm 0.5$ %	$\leq \pm 5$ %
Tolerance - $D_o$ of zero signal	$\leq \pm 0.25$ % $C_n/5$ K	$\leq \pm 0.25$ % $C_n/5$ K	$\leq \pm 0.25$ % $C_n/5$ K	$\leq \pm 0.5$ % $C_n/5$ K
- $D_c$ of characteristic value	$\leq \pm 0.25$ % $C_n/5$ K	$\leq \pm 0.25$ % $C_n/5$ K	$\leq \pm 0.5$ % $C_n/5$ K	$\leq \pm 0.5$ % $C_n/5$ K
Maximum working load $L_u$	120 % $E_{max}$	120 % $E_{max}$	120 % $E_{max}$	120 % $E_{max}$
Ultimate load $L_d$	300 % $E_{max}$	300 % $E_{max}$	300 % $E_{max}$	300 % $E_{max}$

### Ordering data (High load/temperature options and optional double bridge)

SIWAREX WL270 K-S CA	
Rated load 350 t	7MH5114-6LL00
Rated load 500 t	7MH5114-6PL00
Option double bridge	7MH5114-***6* (from 13 t)
High temperature	7MH5114-***7*
High temperature + double bridge	7MH5114-***8* (from 13 t)

## More information:

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