

Digital Load Cells, Scales and Weighing Solutions



Eilersen digital load cells, scales and industrial weighing solutions

Eilersen Electric Digital Systems A/S

Kokkedal Industripark 4
DK-2980 Kokkedal
Denmark

Tel: +45 49 180 100
Fax: +45 49 180 200

[info\(a\)eilersen.com](mailto:info(a)eilersen.com)

Office hours:
Monday - Friday 8AM - 4PM



Robust digital compression load cell with base plate



Weighing instrumentation with customized software



Installations in more than 85 countries worldwide

Weighing solutions based on capacitive digital technology

Since the foundation in 1969, the Eilersen companies in Denmark and Switzerland have been dedicated to the development, manufacture and supply of high quality robust industrial sensors based on [capacitive technology](#) for the measurement of force and weight.

The capacitive technology is patented worldwide

This extensive know-how is patented worldwide and invested in the current range of [digital load cells](#). The capacitive technology developed by Eilersen features a number of [advantages](#) compared to other technologies used in transducers for measuring force and weight.

Eilersen [load cells](#) are produced in stainless steel and hermetically sealed to IP68 by laser welding. Furthermore, the Eilersen load cells feature high accuracy (up to OIML C6), outstanding reliability, simple mechanical and electrical installation and minimal maintenance for the use in tough and demanding industrial applications.

Eilersen load cells are available in capacities up to 500T with a broad range of instrumentation including [weighing terminals](#) and [interface modules](#) featuring Profibus DP, DeviceNet, EtherNet IP, EtherCAT, ProfiNET, Modbus ASCII/RTU, RS485/422, RS232, 4-20mA and 0-10VDC interfaces. The Eilersen load cells and [weighing solutions](#) can be supplied in OIML and ATEX certified versions.

All Eilersen products are developed, manufactured and individually calibrated at the Eilersen manufacturing facilities in Denmark and Switzerland.

Eilersen load cells are trusted worldwide

Eilersen customers are found among leading companies in more than 85 countries worldwide and the dedication to technology, development, quality, and customer support has led to a very high level of customer loyalty.

The Eilersen companies have a sound financial basis and exercises environmental and social responsibility. Furthermore, Eilersen offers an equal opportunity and non-discrimination policy and benefits from a very stable team of dedicated employees.



Kokkedal Industripark 4
 DK-2900 Kokkedal
 Denmark
 info@eilersen.com
 Tel: +45 69 180 100
 Fax: +45 69 180 200

10 Reasons for using Eilersen Digital Load Cells

1. Robust Load Cells for Industrial Applications

All Eilersen digital load cells are based on a capacitive measurement principle where a robust ceramic sensor is mounted inside the load cell body. As the load cells contain no moving parts and the ceramic sensor is not in contact with the load cell body, the load cells tolerate very high overloads, side loads and torsion (up to 1.000% of rated load cell capacity).

The Eilersen load cells are produced in stainless steel and hermetically sealed (IP68/IP69K) by laser welding to ensure superb waterproof protection for tough industrial applications. Furthermore, Eilersen load cells are available in capacities up to 500t.



2. Simple Mechanical Installation

Mechanical protection devices are not necessary when installing Eilersen digital load cells as the capacitive measuring principle allows for very high overloads, side loads, and torsion. This is an important cost and maintenance saver.



3. Simple Electrical Installation

The Eilersen digital load cells feature true plug-and-play installation, as the load cells are pre-calibrated. This is an important feature in high capacity applications where it is difficult to find calibration weights, which saves a tremendous amount of time during commissioning. Furthermore, a damaged load cell can be changed without the need for re-calibration.

www.eilersen.com

10 Reasons for using Eilersen digital load cells



The Weighing Experts

Robust high quality load cells

Eilersen load cells adhere up to 1.000% overload, which allows a very simple and rugged mechanical installation.



The simple installation allows the use for maintenance and reduces the total cost of ownership.

Eilersen load cells are produced in stainless steel and hermetically sealed to IP68 (even suitable) to ensure rugged protection.



Eilersen load cells are factory calibrated and compensated to ensure the highest accuracy (EN847 C0) and quality in the market.

Patented technology

Eilersen load cells are based on a patented digital technology, which reduces the required plate electrical resistance.

The load cell cables are for mounted angle of necessity and the length (up to 100 meters) has no influence on the calibration of the load cell.

The digital technology eliminates the drift and temperature load in long distances on the complete measurement chain is digital.



It is possible to monitor the load and status of each individual load cell in a system which provides stability and easy troubleshooting.

Eilersen load cells are pre-calibrated which saves time during commissioning.

Flexible solutions

Eilersen load cells are available in load cell capacities from 1kg up to 200T and in C0, 1 or C1 and ATEX versions.

Eilersen weighing systems can be supplied with Analog I/P, Serial I/P, Ethernet I/P, Modbus, RS485, RS232, 4-20mA or 0-5Vdc interface.

Requires for industrial load cells, instrumentation and application software are included.



Eilersen Eilersen Digital Systems A/S
 Eilersen Digital Systems A/S
 DK-2900 Kokkedal
 Denmark
 info@eilersen.com
 Tel: +45 69 180 100
 Fax: +45 69 180 200

The Eilersen digital load cell advantages

- Robust and overload tolerant load cells
- Load cells produced in stainless steel and sealed to IP68 (laser welded)
- High accuracy (up to OIML C6)
- OIML and ATEX certified load cells
- Load cell capacities up to 500T
- Simple mechanical and electrical installation
- Minimal maintenance and easy commissioning with integrated load cell diagnostics
- Connectivity: Profibus DP, DeviceNet, EtherNet IP, EtherCAT, ProfiNET, RS485, RS232, 4-20mA, 0-10Vdc etc.

Eilersen products

- [Digital load cells for industrial applications](#)
- [Weighing modules for connectivity to PLC, Scada, PC and control systems](#)
- [Digital weighing terminals](#)
- [Robust scales for industrial applications](#)
- [Customized load cells](#)

Eilersen weighing applications

- [Weighing Solutions](#)
- [Process Weighing](#)
- [Hygienic Weighing](#)
- [Silo Weighing](#)
- [Dynamic Weighing](#)
- [On-Board Weighing](#)
- [ATEX Applications](#)
- [Offshore Weighing](#)
- [Web Tension Measurement](#)
- [Heavy Duty Applications](#)

- [Customized Weighing Solutions](#)
- [Scales](#)
- [ATEX Scales](#)
- [Bench Scales](#)
- [Floor Scales](#)
- [Hygienic Scales](#)
- [Pallet U Scales](#)
- [Platform Scales](#)
- [Customized Scales](#)

Eilersen services and support

The experienced Eilersen team of electrical and mechanical engineers and software developers makes it possible to develop and support unique customized solutions according to customer requirements.

For more information on Eilersen load cells and weighing solutions, please call +45 49 180 100 or [send an email](#) with your request.