



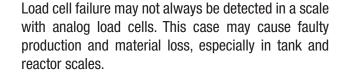






Typical Applications

- Tank, reactor, and silo scales,
- Batching scales,
- · Heavy capacity platform scales,
- Scales with impact loading risk.



Additionally, detecting the faulty load cell, and corner adjustment after the replacement is a troublesome and time-consuming process.

In addition to all these problems, carrying the analog signal at the microvolt level to the control room over long distances increases the risk of weighing errors due to electrical noise caused by magnetic and radio waves.

The LDS-04 Digital Junction Box is designed to help you avoid these classic disadvantages and risks of analog load cells by converting your scale to digital without replacing existing analog load cells. The signal from each load cell connected to the LDS-04 Smart Junction Box is converted into a digital signal by a microprocessor-based converter and transmitted to the weighing display as a digital weight signal.



Features

- Up to 4 load cells connection,
- · Digital data output,
- Automatic corner adjustment,
- Faulty load cell detection and stopping the weighing,
- Providing unbalanced loading data



The product for the harsh industries

- Designed for harsh industrial environments,
- IP67 stainless steel housing,
- · Wide Operating temperature range,
- Increasing the system reliability in the long term with the lightning protection feature
- Metal glands as an option



LDS-04 Smart Junction Box Specifications	
Number of load cells	up to 4 analog load cells
A/D Convertor	24 bit Delta-Sigma A/D convertor with integral analog and digital filters
Internal / External resolutions	10 000 000 counts / 200 000 increments
Analog input range	0 mV to 10 mV
Minimum input voltage	< 1 mV
Linearity	< % 0.02 FS
Temperature drift	< 0.01 % FS / °C
Load cell excitation	5 VDC
Instrument cable	Shielded 4 wires, Ø 4 − 8 mm, Max. 500 meters
External grounding screw	Yes
Enclosure / Protection / Glands	Stainless steel with air ventilation, IP67 and PG9-plastic glands, metal gland is optional
Operating temperature / Humi	dity Between -10°C and +40°C at 85% RH maximum noncondensing
Dimensions (LxWxH)	25,3 x 17,2 x 4,6 cm
Packing sizes (LxWxH)	27,5 x 19 x 5,5 cm
Shipping weight	1,5 kg (3,30 lb)

Recommended Baykon Weighing Indicators

LDS-04 Smart Connection Box is used with the following Baykon digital load cell weighing indicators.









BX23D

BX24D / BX25D

BX30D

BX30DPlus

Connection Diagram

A typical wiring connection of the LDS-04 Smart Junction Box to the Baykon weighing indicator is given below. For connector pinouts, please see the technical manuals of the LDS-04 Smart Junction Box and the weighing indicator.

