







Features

- Load Cell Digitizing unit with Adaptor with screw terminal connections in terminal box for up to 4 load
- Approved to OIML R76 10,000d 0,2uV/d
- Scale Interface Integrated 24-bit A / D converter (4 channels)
- Internal resolution 1,000,000 parts
- Sampling rate of the A / D converter adjustable (6-200 measurements per second)
- Digital filter
- Alibi memory
- Serial interface RS232 and RS485
- Wide input voltage range : 9 30V DC
- Adjustment and setting by software
- Industrial-grade aluminum body
- Degree of protection IP65
- Inputs and outputs via metric screw
- Robust board with high quality screw
- Dimensions DBB 11: (W x L x H) 205 x 46 x 34 mm
- Dimensions DBB 14/44: (W x L x H) 194 x 79 x 34 mm







+49 (0) 5491.999.689.0 www.bosche.eu

BOSCHE WEIGHING SYSTEMS



Digital Load Cell Amplifier DBB

The digital Load Cell Amplifier in junction box DBB is a combination of cable box and an analog-to-digital converter. The internal high-precision digital amplifier with 24-bit A/D converter converts the output signals of the connected load cells into a stable weight value. The electronic weighing system feeds the load cells and converts, amplifies and filters the analog signal to it then digitized.

On the cable box DBB-11 analog load cell 1 can be connected in four-wire technology. On the cable box DBB-14 and DBB-44 up to 4 analog load cells can be connected in parallel in fourwire technology. In DBB -14 every 4 load cells are brought together on one channel. In DBB -44 each cell is evaluated on a separate channel, thus a digital corner adjustment is possible.

Functions

Adjustment is completely digital and, if necessary, also allows separate digital correction of corner errors.

Standard weighing functions available are: Zero, tare, total, stability detection, automatic zeroing at power-up, and piece counting.

Interfaces and software

Communication with connected electronics is via a serial bi-directional RS-232 interface or via a 2-wire RS-485 interface. This makes it easy to connect the digital cable box to a computer, PLC or other devices (if an interface is available on the unit). Configuration and calibration are carried out via the software supplied with the unit.

Construction

The robust aluminium housing is protected against dust and splash water according to protection class IP65. The cables are inserted via brass cable glands.

TECHNICAL DETAILS

Туре	Description
DBB-11	Digital strain gauge measuring amplifier with adapter board and terminal box for one load cell
DBB-14	Digital strain gauge measuring amplifier with adapter board and terminal box for up to four load cells with evaluation on one channel
DBB-44	Digital strain gauge measuring amplifier with adapter board and terminal box for up to four load cells with evaluation of each cell on a separate channel

TECHNICAL DRAWING







