



DBJ-Digital Junction Box

Product Description

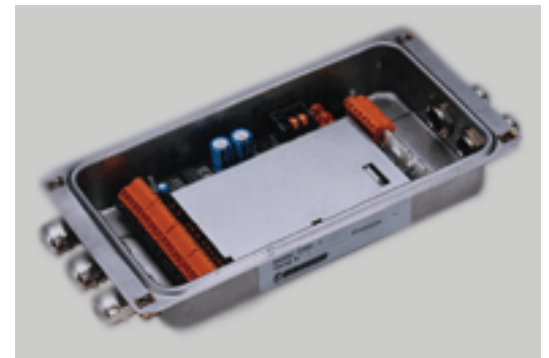
The digital junction box is designed to connect up to 4 analogue load cells, and to offer the performance and the advantages of a digital load cell configuration. It contains all transducer electronics to excite the strain gauge, amplify, filter and convert the analogue signal of each load cell to a digital form.

The signals of the 4 inputs are combined to produce a corrected and adjusted weight value. The box incorporates high performance A/D conversion including digital calibration with individual DIGITAL CORNER ADJUSTMENT. Communication via a bi-directional serial interface allows easy connection to PC, PLC or other peripheral devices with networking capability. Two set points are standard while an analogue output board can be optionally integrated in the unit.

Standard weighing functions are available such as Zero, Tare, Auto zero maintenance, Auto-zero on power-up, no motion detection. Its unique advantages are the electronic calibration and digital corner adjustment, which allow fast and efficient scale or silo installation, without the use of actual calibration weights and the need of trimming procedures. The digital junction box, comes in a robust stainless steel housing and represents a reliable and professional solution for a multitude of weighing applications.

Basic Features

- Approved for 10,000 divisions
- Individual connection of up to 4 strain gauge load cells, 350 Ohm
- Single or dual interval
- Conversion rate up to 40 measurements per second, analogue and digital filtering
- Tilt input (inhibits weighing when scale tilted)
- Two set points
- Serial interface RS485 with networking capability
- Stainless steel enclosure, sealed to IP65
- Windows-based software for scale parameter setting and calibration



Application

- Platform scales
- Silo weighing
- PC-based weighing systems
- Scale networks and weight data collection

Operating Functions

- Basic weighing functions: Zero, tare, automatic zero tracking, auto-zero on power-up, no motion detection
- Digital scale calibration performed either via application of test weights or via the mV/V output values of the load cells
- Continuous error detection

Options

- Analogue output (0/ 4 – 20 m A)
- Software for automatic tilt correction (for non-legal-for-trade applications)
- Remote display terminal RDT52-A/B, 6-digit, LED display with 6 key membrane keypad, as display and keyboard interface
- RS485-RS232 interface with power supply
- Mains power adapter 230VAC-9VAC