



VISHAY INTERTECHNOLOGY, INC.

Click on product pictures, pages 3 - 7,
to see specification sheets

PROCESS WEIGHING TECHNOLOGIES

Vishay BLH



PLANT-WIDE WEIGH SYSTEM SOLUTIONS

- Dynamic Reactor, Batch, Blend, and Mix Vessels
- Storage Tank, Bin, and Hopper Weighing
- Silo and Inventory Management Systems
- Loss-In-Weight Feeders
- Level Measurement and Control
- Floor and Bench Scale Indication

PRODUCT OVERVIEW

Plant-Wide Weigh System Solutions



From the nearly impossible to the ordinary, we weigh every blender, tank, bin, and silo in your plant: precisely and cost-effectively

From quality critical reactor vessels to ingredient storage bins; from clean-in-place batch tanks to shipping and receiving scales; from fractions of an ounce to thousands of tons; Vishay BLH precision weighing systems cover every imaginable weight processing need, plantwide.

Two complete lines, Expert and Professional, ensure quality, reliability, and cost satisfaction for every

system. Expert series weighing systems measure quality critical, dynamic process vessels, they are insensitive to side, end, and torque loads introduced by extraneous process equipment or thermal expansion. Professional series weighing systems accurately measure all static vessels such as silos, bins, and hoppers.

EXPERT SERIES

**High Performance
Dynamic Weighing and Processing**

- Reactor vessels
- Batching tanks
- Ribbon blenders
- Quality critical mixers
- Engine thrust stands

PROFESSIONAL SERIES

**Economical/General Purpose
Static Weight Measurement**

- Ingredient storage tanks
- Outdoor silos
- Scrap bins
- Feeder tanks
- Shipping/receiving scales

Precision Accuracy, High Performance

WEIGH MODULES



KIS Series – Double Cantilever Weigh Modules

Exclusive, cylindrical, double-cantilever KIS design rejects process side loads (torque and torsion) introduced by mixers, blenders, agitators, and thermal expansion. When combined with Expert Series instrumentation, KIS-based systems provide the most accurate, reliable, and repeatable weight measurement available.

Capacities

113, 225,
450, 1.12 K,
2.25 K, 4.5 K,
11.25 K, 22.5 K
and 45 K lb



- Rejects side loads up to 100% of rated capacity
- Repeatability up to 0.01% full scale
- 100% stainless steel construction for harsh environments
- FM and CSA approved for hazardous locations

Request product data sheet number 12160



KDH Series – High Capacity Weigh Modules

Designed for large indoor and outdoor process or silo type vessels, KDH modules meet ANSI and UBC structural requirements for wind load and seismic applications. A floating top plate and yoke arrangement allows each module to accommodate vessel thermal expansion and contraction without measurement errors.

Capacities

22.5 K, 45 K,
111.5 K, 200 K
and 300 K lb



- 100% stainless steel construction – KDH-3B
- Seismic and wind resistant self-checking design
- 0.02% repeatability full scale
- FM and CSA approvals

Request product data sheet number 12161 and 12162



Z-BLOK Weigh Modules with Seismic and Wind Load Approvals

- Inherent structural “overdesign” for ANSI and UBC
- Double cantilever load beam improves accuracy
- 0.01% repeatability full scale
- FM and CSA approvals

Capacities

500, 1 K,
2 K, 5 K, 10 K,
20 K and
50 K lb

Request product data sheet number 12163

LOAD CELLS



LPT – Low Profile Transducers – Height Less than 1.25 inches

- Fatigue-resistant design and precision performance
- 100% stainless steel construction (2 K - 10 K)
- Tension or compression loads

Capacities

1 K, 2 K,
5 K, and
10 K lb

Request product data sheet number 12164

Precision Accuracy, High Performance

CONTROLLERS/INDICATORS



LCp-104 Safe-Weigh® Systems for Quality Critical Applications

- Display individual load cell data as weight or percent of load
- Continual, proactive diagnostics assure system performance
- Intuitive digital filtering and multiple analog outputs
- Overload status monitoring of each system load cell
- DeviceNet, Profibus, A-B Remote I/O, or Modbus Plus Interface

Request product data sheet number 12179



LCp-100/200 Weight Indicator/Controllers

- Designed for precise high-speed process weighing applications
- Interface with any PLC, DCS, or PC-based process control system
- A-B Remote I/O, Modbus Plus, Profibus or DeviceNet protocol
- Ultra efficient Plug-n-Weigh® set-up and calibration
- Weight and mass flow measurement with setpoint control (200)

Request product data sheet number 12180 and 12181



LCp-400 Gate-Weigh® LAN Controller

- Single port communication interface for multiple weigh systems
- Constant update and storage of node data eliminates polling
- Self-configuring digi-system plus networking
- A-B Remote I/O or Modbus Plus/RTU interface available
- Centralized scanning and terminal display functions

Request product data sheet number 121830

TRANSMITTERS



DXp-40 High Resolution Weight Transmitter

- Individually digitized load cell data for superior system accuracy
- Continuous diagnosis of system performance
- Keypad calibration eliminates expensive deadweight calibration
- Optional dynamic digital filtering rejects process "noise"
- Interfaces include Modbus Plus and A-B Remote I/O
- Web tension measurement version available

Request product data sheet number 12177



DXp-10/15 Blind Weight Transmitters

- Microprocessor-based "blind" weight transmitters
- Integral summing junction circuit for multi-cell applications
- 50,000 count (DXp-15) or 20,000 count (DXp-10) resolution
- A-B Remote I/O or Modbus RTU interface available (DXp-15)
- Standard NEMA 4/4X enclosure for harsh environments

Request product data sheet number 121878

Precision Accuracy, High Performance

SERVICES



Application Support and Field Service

Vishay BLH Application Engineers are the best in the business. With over 50 years of accumulated process industry knowledge and experience, our Application Engineers profile and model your system before you buy it. After installation, our Field Service Engineers fine tune it for maximum dynamic performance and repeatability to meet your expectations. The Field Engineering group provides onsite startup, calibration, and service 24 hours a day, 7 days a week, anywhere in the world.

Our service Engineers are equipped and trained to perform a wide range of calibration procedures. Available service contracts offer a turn-key calibration program that includes full computer generated documentation of results and traceability of methods and equipment.

FSk-40 Complete Field Service Kit



Start-up, commissioning, routine servicing, and calibration of process weighing systems can be simplified significantly using the FSk-40 Service and Calibration Kit. This complete kit is equipped with a four-channel load cell instrument, an instrument calibrator, a serial communication module, operation and servicing manuals, and a set of 10-foot remote connection cables. The entire assembly is housed in a rugged, portable suitcase with shock mounting.

Request product data sheet number 12191

CALIBRATORS



Model LCc-II Load Cell Calibrator

- For indication and calibration of up to 10 load cells
- Ten registers with 10 point linearization curves each
- Quick Cal, 10-point dead load, or data sheet calibration/each register
- Peak and valley storage capability for each register

Request product data sheet number 12185



Models 625, 325 and 125 Precision Calibrators

- Compact – rugged construction for cal lab or plant floor service
- Model 625: five ranges, 56 calibration points, 0.05% accuracy
- Model 325: eight ranges, three bridge impedance selections, vernier
- Model 125 Pocket Calibrator: palm sized, four selectable ranges

Request product data sheet number 12190



EconoMount Weigh Modules

- High grade stainless steel load beams
- Overload and uplift safety protection
- Fixed, full-floating, semi-floating mounting
- NTEP, OIML, FM, and CSA approvals

Request product data sheet number 12165

Capacities

500, 1.25 K,
2.5 K, 5 K,
and 10 K lb



EZ-Mount Weigh Modules

- High grade stainless steel construction
- Overload and uplift safety protection
- Accommodates process thermal expansion
- NTEP, OIML, and FM approvals

Request product data sheet number 12154

Capacities

11 to 1.1 K lb
(5, 10, 20, 50,
100, 200, 250,
and 500 kg)



PRO-Mount Weigh Modules

- Ideally suited for applications with high dead-load to live load ratios
- Self-checking design for thermal expansion
- Load beam sealed to IP67 standards
- NTEP, OIML, FM, and CSA approvals

Request product data sheet number 12153

Capacities

10 K, 15 K, 25 K,
35 K, 50 K,
and 75 K lb



U3SB "S" Type Load Cells

- Constructed with quality nickel plated, alloy tool steel for superior corrosion resistance
- Stainless steel versions available
- Sealed to IP67 standards
- NTEP and FM Approvals

Request product data sheet number 12152 and 12166

Capacities

50, 100, 150,
250, 300, 500,
750, 1 K, 1.5 K,
2 K, 2.5 K, 3 K,
5 K, 10 K, 15 K,
and 20 K lb



Cannister Load Cells

- Compact - rugged with low deflection
- Compression, tension, or universal service
- Sealed to IP67 standards
- FM and CSA approvals

Request product data sheet numbers 12170, 12171, 12172, 12173, and 12174

Capacities

500 to 500 K lb



Floor and Bench Scales

- Platform sizes 10" square to 5 x 7 feet
- Stainless steel versions available
- Compatible with all Vishay BLH indicators, transmitters, and network products

Request product data sheet number 12175 and 12176

Capacities

5 to 10 K lb

**PS-1040/45/50 Weight Transmitters**

- Panel or DIN rail mount configurations
- Push button configuration and calibration
- 10 Point load cell linearization
- 0-10 Vdc or 4-20 mA isolated analog output
- Peak hold measurement feature
- Keypad entry or dead load calibration
- Selectable/adjustable digital filtering
- Serial communication with Modbus RTU protocol

Request product data sheet number 12156 and 12157

**PS-2010W Transmitter/Controller**

- Compact, full function weight indicator
- DIN rail mount capability
- 700,000 count resolution; eight millisecond sample rate
- Dynamic digital filtering with on-line diagnostics
- Eight open collector setpoint outputs with main and dribble operation
- High speed - 120 updates-per-second
- 4-20 mA current output
- Web tension measurement version available

Request product data sheet number 12186

**PS-1020 Analog Transmitter**

- Complete load cell signal conditioner
- Precise 10 Vdc excitation supply for up to four load cells
- Selectable 0-5 Vdc, 0-10 Vdc, or 4-20 mA analog output
- Independent zero and span adjustments
- DIN rail "Snap Track" mounting
- Adjustable analog filtering
- Integral load cell summing

Request product data sheet number 12158

Precision Web Tension Measurement Systems

Low Tension Transducers



High Tension Transducers

Vishay BLH offers web tension system solutions for ultra low, low, and high tension applications. Rather than using less accurate, semiconductor strain gages which have many limitations, we use a full Wheatstone Bridge that is temperature compensated and dead weight calibrated to deliver accuracy, high performance and reliability.

- Paper and roofing machines
- Film, foil, and filament converting
- Conveyor and motion control

Request our Web Tension Measurement Brochure

THE AMERICAS

VISHAY TRANSDUCER SYSTEMS AMERICAS

VISHAY BLH

75 Shawmut Road
Canton, MA 02021
USA
PH: +1-781-821-2000
FAX: +1-781-828-1451
E-MAIL: vts.us@vishaymg.com

VISHAY TRANSDUCER SYSTEMS CANADA

VISHAY BLH

41 Horner Ave., Unit 5
Toronto, Ontario M8Z 4X4
CANADA
PH: +1-800-567-6098 (toll free)
+1-416-251-2554
FAX: +1-416-251-2690
E-MAIL: vts.can@vishaymg.com

ASIA

VISHAY TRANSDUCER SYSTEMS TAIWAN*

15 Fl. No. 86, Sec.1 Shintai 5th Rd.
Shijr City, Taipei, 221
Taiwan, R. O. C.
PH: +886-2-2696-0168
FAX: +886-2-2696-4965
E-MAIL: vts.roc@vishaymg.com
*Asia except China

VISHAY TRANSDUCER SYSTEMS CHINA

No. 5 Binyuan Nan Dao Youyi Rd.
Hexi District, Tianjin China
Code 300061
PH: +86-22-2835-3503
FAX: +86-22-2835-7261
E-MAIL: vts.prc@vishaymg.com

EUROPE

VISHAY TRANSDUCER SYSTEMS GERMANY

VISHAY NOBEL

Tatschenweg 1
74078 Heilbronn
Germany
PH: +49-7131-3901-260
FAX: +49-7131-3901-2666
E-MAIL: vts.de@vishaymg.com

VISHAY TRANSDUCER SYSTEMS UK

VISHAY NOBEL

Stroudley Road
Basingstoke
Hampshire RG24 8FW
United Kingdom
PH: +44-125-646-2131
FAX: +44-125-647-1441
E-MAIL: vts.uk@vishaymg.com

VISHAY TRANSDUCER SYSTEMS FRANCE

VISHAY NOBEL

16 Rue Francis Vovelle
28000 Chartres
France
PH: +33-2-37-33-31-20
FAX: +33-2-37-33-31-29
E-MAIL: vts.fr@vishaymg.com

VISHAY TRANSDUCER SYSTEMS SWEDEN

VISHAY NOBEL

P.O. Box 423
SE-691 27 Karlskoga
Sweden
PH: +46-586-63000
FAX: +46-586-63099
E-MAIL: vts.se@vishaymg.com

VISHAY TRANSDUCER SYSTEMS NORWAY

VISHAY NOBEL

Hasvard Martinsens vei 19
NO-0915 Oslo
Norway
PH: +47-22-21-40-70
FAX: +47-22-21-92-10
E-MAIL: vts.no@vishaymg.com

VISHAY TRANSDUCER SYSTEMS FINLAND

VISHAY NOBEL

Jorvas Hitech Center
FIN-02420 Jorvas
Finland
PH: +358-9-8194-220
FAX: +358-9-8194-2211
E-MAIL: vts.fi@vishaymg.com

VISHAY TRANSDUCER SYSTEMS ISRAEL

5 Hazoran Street
P.O. Box 8381, New Industrial Zone
Netanya 42506
Israel
PH: +972-9-863-8888
FAX: +972-9-863-8800
E-MAIL: vts.il@vishaymg.com



VISHAY MEASUREMENTS GROUP

Vishay Transducers: Vishay Nobel, BLH, Caltron, Sensortronics®, TedeA-Huntleigh

Vishay Micro-Measurements: Vishay Micro-Measurements, BLH SR-4®

www.vishaymg.com

VISHAY IS ONE OF THE WORLD'S LEADING MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENTS