

Product Overview

Core Products



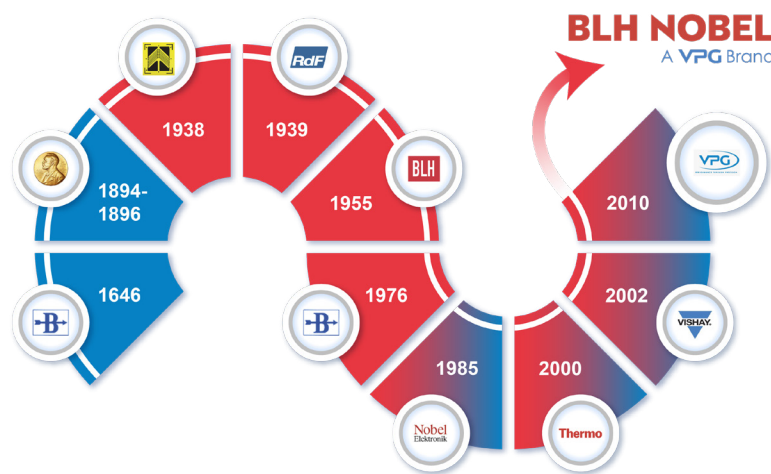
SMART SOLUTIONS FOR
DEMANDING INDUSTRIES

BLH NOBEL
A VPG Brand

BLH Nobel — Your Partner, All the Way

BLH Nobel is a brand of Vishay Precision Group, Inc. (NYSE: VPG), an internationally recognized designer, manufacturer and marketer of systems and sensor-based systems, as well as specialty resistors and strain gages based upon our proprietary technology. VPG provides precision products and solutions, many of which are “designed in” by our customers, specializing in the growing markets of stress, force, weight, pressure, and current measurements.

BLH Nobel offers unparalleled expertise that began in the late 1950s. Our know-how has grown with the experience, talent and skills that came from several acquisitions of well-known brands in the field of weighing and force measurement. Through the years, we've maintained a simple, customer-focused approach: We provide the right system for your specific needs, along with extensive technical documentation to support safe and efficient product designs. As your partner, we work closely with you from start to finish, ensuring smooth installations and reliable, long-running service.



Meeting Your Needs

Because we design load cells, instrumentation and related software ourselves we are able to offer complete solutions tailored to your specific requirements. Our ultimate objective is to build the best system for you. We have a proven track record of successfully installed internally-produced custom hardware and software, tailored to meet our customer's needs. Whether you are an OEM designer or have a factory plant requiring a solution or replacement to an existing machine, we ensure the optimized functionality. Our system and application engineers possess the know-how needed to solve intricate weighing problems and related challenges.

BLH Nobel application engineers are the best in the business. With decades 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 the system to ensure optimal dynamic performance and repeatability that meet your expectations. The field-engineering group can provide on-site startup, calibration and service at your request. Our service engineers are equipped and trained to perform a wide range of calibration procedures. Our service contracts offer a turnkey calibration program that includes full computer generated documentation of results and traceability of methods and equipment.

We develop load cells and software adapted to the client's application at our Swedish and American production facilities. Our R&D department is based in Sweden, with supplemental resources in the U.S. All of our products, including those sourced from third parties, are carefully vetted to ensure they meet or exceed our exacting quality standards and perform as expected. Driven by decades of total customer focus, our ultimate goal is the optimal solution for your needs. Our experts are waiting for your project.

For decades, customers have turned to our experts for special weighing installations. Whether you are interested in converting a crane in a steel mill or developing a completely new weighing system for a pharmaceutical pilot plant, we can provide a solution.

BLH Nobels Core Products: Precision, Reliability and Advanced Technology

For decades, BLH Nobel has been at the forefront of weighing and force measurement, offering cutting-edge solutions designed for precision and reliability in critical applications. Our core products — The KIS Load Cell, KDH-5 Weigh Module, and G6 Instrument — are engineered to deliver unmatched performance and efficiency, ensuring your operations run smoothly and accurately.



Highest Quality & Accuracy



Unmatched Expertise



Flexible Design & Manufacturing

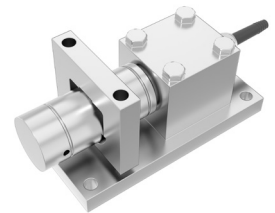


End-to-end Service

The KIS Double Cantilever Technology Advantage

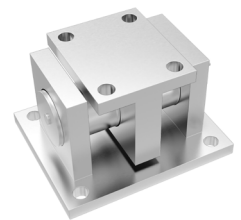
Our KIS beam technology starts with using the best gages available and the best gage configuration. All KIS beams are factory-calibrated to deliver repeatability, accuracy and reliability at a low installation cost. The sleeve as one of the unique elements of the KIS load cell product design, enables locating the load application point directly above the strain gage sensors inside. This leads to significant performance advantages compared to traditional load cell product designs, making the KIS load cells insensitive to disturbance forces such as thermal expansion, vibration, or twisting moment.

The KIS Weigh Modules include a plated steel (stainless steel is optional) clamping block and mounting yoke. Our modules are an industry standard for demanding applications, delivering accuracy of 0.02% and repeatability of 0.01%.



KDH-5 – for Capacities Above 5 Tons

The KDH-5 Weigh Module combines high accuracy with a compact and robust mechanical design and has a long history of dependable performance. With the integrated tilt guard there is no need for extra mounting supplements, which makes the weigh module very simple to install. The KDH-5 is a cost-effective FM and ATEX approved weigh module with a capacity up to 200 tons, making it the perfect choice for weighing heavy applications like silos, containers and weigh bridges. The double ended shear beam weigh module features a floating load point that allows radial horizontal movement due to thermal expansion of the tank.



G6 – Next-Generation, Multi-Channel Instrument


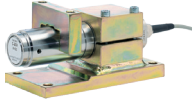
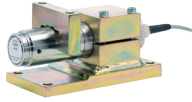
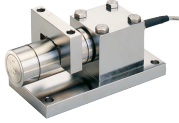






















G6 is a best-in-class, next-generation multi-channel process instrument from the worldwide leaders in industrial weighing and force measurement. Building on the success of the G4 instrument, proven through more than 20 years of performance in highly demanding applications, G6 implements today's most advanced technologies for enhanced performance and versatility. In addition to delivering outstanding accuracy, functionality and flexibility, G6 offers simplified setup, easy use, and long-lasting reliability in challenging industrial environments.

With its modular design supporting up to 8 high-speed input channels, and highly customizable, multi-functional embedded software, the G6 supports the widest array of applications, from basic weighing to complex, multi-force measurement, motion supervision and diagnostics. It can easily be modified during development of your customized solution and reconfigured at any time as your application needs change, even post-installation.




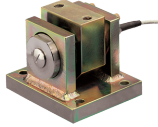
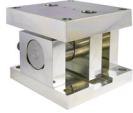







Weigh Modules and Load Cells

Our load cells are simple to install, rugged, insensitive to side loads, extremely accurate and feature a moveable load point.










Features / Products		KIS-1	KIS-2	KIS-3	KIS-8	KIS-9
						
Material		Stainless Steel, Plated Steel	Stainless Steel, Plated Steel	Stainless Steel, Plated Steel	Stainless Steel	Stainless Steel
Combined error, % of R.O.		±0.03	±0.05	±0.02	±0.075	±0.1
Repeatability, % of R.O.		0.01	0.01	0.01	0.02	0.02
Capacity Ranges	300-2000 kN ~ 30 600-204 000 kg	500 kN (112 klb)				
	5-300 kN ~ 510-30 600 kg	50 kN (11 klb)	50 kN (11 klb)	20 kN (4.50 klb)	200 kN (45 klb)	100 kN (22 klb) 5 kN (1.12 klb)
	0-5 kN ~ 0-510 kg		1 kN (0.22 klb)	1 kN (0.22 klb)	1 kN (0.22 klb)	
Environ. Protection Class		IP67	IP67	IP67	IP67	IP67
Certificates		   	   	     	   	  
Dual bridge		Optional	Optional	Optional	Optional	-
Overload	Safe % of R.L.	200 (150 for 300-500 kN)	200 (150 for 30-50 kN)	200	150	150
	300	300 (200 for 300 kN)	300 (200 for 30-50 kN)	300	200	200

All units are available as ATEX versions and offer special cable adoption and high environmental protection levels.























KIS-11	KIMD-1	KDH-5	KOM-1	KDH-1
				
Stainless Steel, Plated Steel	Plated Steel	Stainless & Plated Steel (Top Plate Optional)	Stainless Steel, Plated Steel	Plated Steel
±0.02	±0.1	±0.075	±0.25	±0.10
0.01	0.02	0.02	0.25	0.02
		2000 kN (450 klb)		1335 kN (300 klb)
	1000 kN (225 klb)			890 kN (200 klb)
200 kN (45 klb)	250 kN (56 klb)		200 kN (45 klb)	
50 kN (11 klb)		20 kN (4.50 klb)	10 kN (2.25 klb)	
IP67	IP67	IP67	IP67	NEMA 6, IP67
				
Optional	Optional	Optional	Optional	–
200	50	200	200	150
300	100	300	300	300

Weigh Modules and Load Cells

Our load cells are simple to install, rugged, insensitive to side loads, extremely accurate and feature a moveable load point.

Features / Products		TankMount	Alpha Beam	KDH-3	Z-block	DSA-R
						
Material		Plated Steel, Stainless Steel	Plated Steel	Stainless Steel	Plated Steel	Plated Steel
Combined error, % of R.O.		±0.02 (load cell) ±0.10 (module)	±0.04	±0.12	±0.10	±0.1
Repeatability, % of R.O.		0.01	0.01	0.02	0.01	0.02
Capacity Ranges	300-2000 kN ~ 30 600-204 000 kg					2000 kN (450 klb) 500 kN (112 klb)
	5-300 kN ~ 510-30 600 kg	50 kN (11 klb) 5 kN (1.12 klb)		500 kN (112 klb) 100 kN (22 klb)	222 kN (50 klb)	
	0-5 kN ~ 0-510 kg		0.5 kN (0.011 klb) 0.02 kN (0.0045 klb)		2.22 kN (0.5 klb)	
Environ. Protection Class		IP68, IP69K	IP67	NEMA 4x/6, IP67	IP67	IP67
Certificates						
Dual bridge		-	-	-	-	-
Overload	Safe % of R.L.	150	175	150	150	200
	Ultimate % of R.L.	300	300	300	-	450

All units are available as ATEX versions and offer special cable adoption and high environmental protection levels.

KIMD-M	Canister	KISD-6	KIMD-6	KOSD-40	CLC
					
Stainless Steel, Plated Steel	Painted Steel	Stainless Steel	Stainless Steel	Stainless Steel	Plated Steel
±0.1	±0.05 – 0.10	±0.1	±0.25	±0.5 (500kN version: ±1)	±0.1
0.02	0.01 – 0.02	0.02	0.05	0.25	0.02
2000 kN (450 klb) 500 kN (112 klb)	2224 kN (500 klb) 2.22 kN (0.5 klb)	1000 kN (225 klb) 50 kN (11 klb)	200 kN (45 klb) 10 kN (2.25 klb)	500 kN (112 klb) 10 kN (2.25 klb)	2000 kN (450 klb) 250 kN (56 klb)
IP67	IP67	IP67	IP67	IP67	IP67
  		   	   	   	
Optional	Optional	Optional	Optional	Optional	–
200	150	200	200	200	200
300	300	300	300	300	300

Instruments

We offer a complete program of instrumentation, transmitters, and batching units. Our instruments are known for their accuracy and reliability. Our instrumentation are optimized for process industry. Easy to calibrate, they are supporting various communication protocols.

Features/Products		G6 PM	G6 RM	G5 PM
				
Display		Color LCD	LCD	Color LCD
Number of Weighing Channels		up to 8	up to 6	1 or 2
Gross/Net		✓	✓	✓
Environmental Protection Class		IP65 (panel)	IP20	IP65 (panel)
Legal for trade		-	-	✓
Interfaces	Ethernet	✓	✓	✓
	USB	✓	✓	✓
	RS485 Modbus RTU	✓	✓	✓
	Analog Output	✓	✓	✓
	Analog Input	-	-	✓
Digital I/O	Inputs	up to 128	up to 128	4
	Outputs	up to 128	up to 128	4
Fieldbus Support	Modbus TCP	✓	✓	✓
	Profibus	✓	✓	✓
	DeviceNet	✓	✓	✓
	Ethernet/IP	✓	✓	✓
	ControlNet	-	-	✓
	PROFINET	✓	✓	✓
	EtherCat	-	-	✓
Power Supply		24 VDC & 230 VAC	24 VDC	24 VDC & 230 VAC
Software Features	Web browser	✓	✓	✓
	Batching	✓	✓	-
	Totalizers	✓	✓	✓
	Crane Weighing	✓	✓	✓
	Belt Weighing	✓	✓	-
	Force Measurement	✓	✓	✓
	Flow rate	✓	✓	✓
Load Cell Supervision		-	-	✓
Certificates		 	 	   

reliability, user-friendliness, and their ability to communicate easily with virtually any factory networks. options, amongst EtherNet/IP and PROFINET.

G5 RM	G5 RMD	AST 5P	WST 5	WIN 5
				
-	OLED	LCD	LED	LED
1 or 2	1 or 2	1	1	1
✓	✓	-	✓	✓
IP20	IP20	IP20	IP20	IP65
-	-	-	-	-
✓	✓	-	-	-
✓	✓	-	-	-
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	-	-	-
4	4	2	2	1
4	4	2	2	2
✓	✓	-	-	-
✓	✓	-	-	-
✓	✓	-	-	-
✓	✓	-	-	-
✓	✓	-	✓	-
✓	-	-	-	-
24 VDC	24 VDC	24 VDC	24 VDC	24 VDC & 230 VAC
✓	✓	-	-	-
-	-	-	-	-
✓	✓	-	-	-
✓	-	-	-	-
-	-	-	-	-
✓	✓	-	-	-
✓	✓	-	-	-
✓	✓	-	-	-
				

Accessories and Third Party Products

At BLH Nobel we strive to provide the optimum solutions for our customers in the process weighing industry. Therefore, we offer both, BLH Nobel and 3rd party high quality accessories, to assure the best match for your unique application demands.

<p>Power Supply</p>		<p>We use market-leading brands for power supplies when required Standard unit data: 24 VDC supply, 60 W, 2.5 A. DIN-rail mount.</p> <p>Other models dependent on application or on request.</p>
<p>RD 10 Display</p>		<p>RD 10 is a compact, digit-for-digit, high visibility remote display. The large LED display (57 mm digits) and wide viewing angle contribute to ease of reading at long distances.</p>
<p>Zener Barriers</p>		<p>In the event of an electrical fault, the diodes limit the voltage that can reach the hazardous area and the resistor limits the current.</p> <p>One channel contains 2x MTL7761P and 1x MTL7766P. Compatible with elder MTL barriers of the same type.</p>
<p>LCT 1008 Load Cell Tester</p>		<p>System diagnostic and service. Calibration function. Testing of individual load cell. Easy connection to Junction Box SL-5 or CGS4-C ATEX.</p>
<p>Gateway</p>		<p>Anybus products enable industrial devices to communicate with any fieldbus or industrial Ethernet network — wired or wirelessly.</p>
<p>Model 325 Precision Calibrator</p>		<p>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.</p>

<p>CGS4-C ATEX Junction Box</p>	 	<p>Rugged summing junction box, build for harsh environment. Easy connection to load cell tester model 1008 for testing of individual transducer, calibration, service and diagnostic.</p> <p>ATEX certified for use at applications in explosive environments.</p>
<p>SL-5 Junction Box</p>		<p>Rugged summing junction box, built for harsh environment. Easy connection to load cell tester model 1008 for testing of individual transducer, calibration, service and diagnostic.</p>
<p>SL-11 Junction Box</p>		<p>Allows fast and easy connection of up to 4 transducers to a single weighing instrument.</p> <p>Meets IP 65 requirements.</p> <p>4 cable glands M16 and 1 cable gland M20 in nickel plated metal.</p> <p>Painted cast aluminum encasing.</p>
<p>SL-21 Junction Box</p>		<p>Allows for fast and easy connection of up to 4 transducers to a single weighing instrument.</p> <p>Meets IP 66 requirements.</p> <p>4 cable glands M16 and 1 cable gland M20 in stainless steel.</p> <p>Stainless steel encasing.</p>
<p>Scales Platform, Table, Floor</p>		<p>We can supply different types of industrial scales.</p> <p>Alloy or stainless steel.</p> <p>Customized or standard.</p> <p>With or without ATEX.</p>

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