



VISHAY INTERTECHNOLOGY, INC.

INSTRUMENTS

## WEIGHT INDICATORS

Vishay Transducers

PRODUCT OVERVIEW





# Weight Indicators

Vishay Transducers

Products	Features
<b>VT 50/VT 100</b> 	<p>General-purpose weight indicators for platform, bench scales and weighbridges. The heavy-duty plastic enclosure is designed for desktop, wall (tilt) mount, or post mount. RS232 serial port enables connection to PC and serial printer. Ticket formats can be downloaded via the keypad or communication port. VT 100 is OIML- and NTEP-approved to 10,000 d.</p> <ul style="list-style-type: none"> <li>• LED display</li> <li>• 30 Samples per second</li> <li>• Three-level digital filtering</li> <li>• Serial printer and EDP/PC support</li> <li>• Programmable ticket format with consecutive transaction numbering</li> </ul>
<b>VT 120</b> 	<p>General-purpose weight indicators for platform, bench scales and weighbridges. The heavy-duty plastic enclosure is designed for desktop, wall (tilt) mount, or post mount. RS232 serial port enables connection to PC and serial printer. Ticket formats can be downloaded via the keypad or communication port. VT 120 is OIML-approved to 10,000 d.</p> <ul style="list-style-type: none"> <li>• LCD display with back light</li> <li>• Numeric key pad</li> <li>• 30 Samples per second</li> <li>• Internal rechargeable battery</li> <li>• Serial printer and EDP/PC support</li> <li>• Programmable ticket format with consecutive transaction numbering</li> <li>• Preset tare with ten tare memories</li> </ul>
<b>VT 200/VT 220</b>  (Aluminum case)  (Stainless steel case)	<p>Versatile unit with a wide range of industrial and commercial applications. Automatic date and time storage with the real-time clock option clearly documents all printout records. Additional digital and analog inputs and outputs can be supported by optional add-on modules. VT 200/220 is OIML- and NTEP-approved.</p> <ul style="list-style-type: none"> <li>• Dual range and dual interval</li> <li>• Counting mode</li> <li>• 70 Samples per second</li> <li>• Serial printer support with programmable ticket format</li> <li>• Alibi (Flash) memory</li> <li>• Stainless steel enclosure, IP65; or Aluminum enclosure, IP54</li> <li>• RS485 serial interfaces (option)</li> <li>• Real-time clock (option)</li> <li>• Two setpoints, opto-isolated (option)</li> <li>• Analog output 0–10 Vdc or 4–20 mA (option)</li> <li>• Dual scale operation (option)</li> </ul>
<b>VT 300</b> 	<p>Designed primarily for weighbridge applications. Its software manages various transactions, allowing choices of customer, material type or truck identification. All the activities are stored in non-volatile memory and available to be reported in four programmable printing formats. VT 300 is OIML- and NTEP-approved.</p> <ul style="list-style-type: none"> <li>• Dual range and dual interval</li> <li>• 27 Keys, pseudo-alphanumeric and functions keyboard</li> <li>• 16 Character dot-matrix LCD display with backlight</li> <li>• Two opto-isolated setpoints</li> <li>• Alibi (Flash) memory</li> <li>• Programmable transactions database</li> <li>• Four programmable ticket formats</li> <li>• Counting mode</li> <li>• Dual scale operation (option)</li> <li>• Analog output (option)</li> <li>• RS485 serial interface (option)</li> </ul>



In combination with Vishay Transducers' load cell product line, our weight indicators provide complete solutions for weighing applications.

- Platforms
- Weighbridges
- Inventory control
- Material handling
- Process control

- Desktop
- Wall mount
- Panel mount
- DIN rail mount

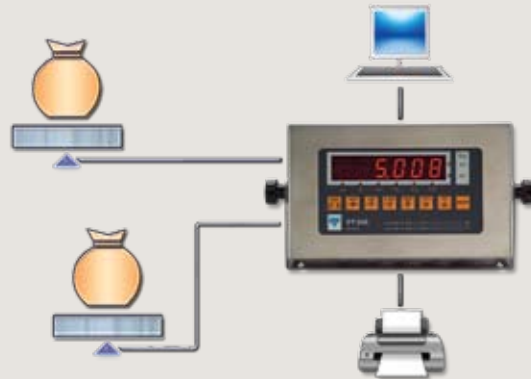
- OIML R-76
- NTEP H44

Application Selection Guide										
Application	Products									
	VT 50	VT 100	VT 120	VT 200/220	VT 300	VT 400	VT 500	PS-1040	PS-1045	PS-1050
Platforms, Bench Scales	●	●	●	●	●					
Counting				●	●					
Weighbridges	●	●		●	●					
Material Handling					○	●	●	●	●	●
Bagging Scales							●			
Hopper Scales							●			
Stand-alone Batching						●	●	○	○	○
Networked Batching						○	●	●	●	●
<div>● Fully compatible with the application requirements</div> <div>● Partially compatible with the application requirements</div> <div>○ Limited compatibility with the application requirements</div>										

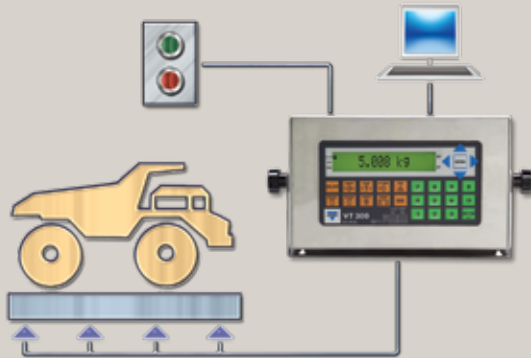


## APPLICATIONS

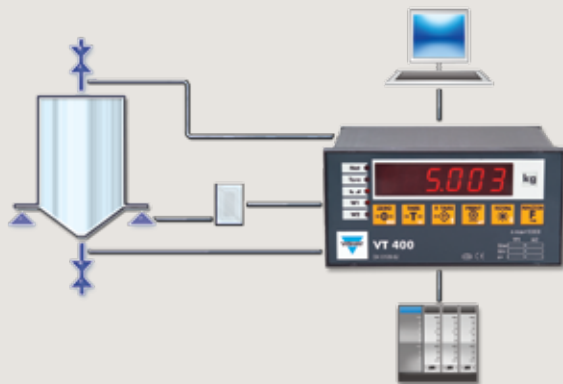
Platform, Bench Scales  
Counting Scales  
Inventory Control  
Various Industrial Weighing Systems



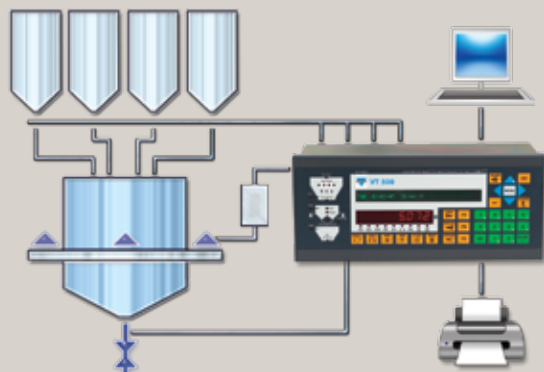
Weighbridges  
Inventory Control  
Industrial Weighing Systems  
Bench, Floor, and Counting Scales



Material Handling  
Process Weighing  
Inventory Control



Hopper Scales  
Gross and Net Weighers  
Drum-Filling Scales  
Bagging Scales





FEATURES AND SPECIFICATIONS							
Product	Application	Enclosure	Mounting Options				Display
			Desktop	Wall	Panel	DIN-Rail	
<b>VT 50</b>	Platform, Bench Scales, Inventory Monitoring	ABS	x	x	With Adaptor		LED
<b>VT 100</b>	Platform, Bench Scales, Inventory Monitoring	ABS	x	x	With Adaptor		LED
<b>VT 120</b>	Platform, Bench Scales, Inventory Monitoring, Medical	ABS	x	x	With Adaptor		LCD
<b>VT 200</b>	Platform, Bench Scales, Inventory Monitoring, Counting	Stainless Steel		x			LED
		Aluminum	x	x			
<b>VT 220</b>	Platform, Bench Scales, Inventory Monitoring, Counting	Stainless Steel		x			LCD
		Aluminum	x	x			
<b>VT 300</b>	Weighbridge, Platforms, Counting	Stainless Steel		x			LCD
		Aluminum	x	x			
<b>VT 400</b>	Mixing, Stand-alone Batching	ABS			x		LED
<b>VT 500</b>	Bulk Handling— Hopper Scales, Belt Weigher, Bagging Scales	Steel			x		LED + VFD 2 x 40 Characters
<b>PS-1040</b>	Batching Systems	ABS				x	-
<b>PS-1045</b>	Batching Systems	ABS				x	LED
<b>PS-1050</b>	Batching Systems	ABS			x		LED



No. of Keys	Key Functionality	IP Level	Communication	Set Points	Approvals	Battery Operation
5	Basic	IP54	RS232	-	-	-
5	Basic	IP54	RS232	-	OIML 10,000 NTEP 10,000	-
18	Basic	IP54	RS232	-	OIML 10,000	Yes
8	Basic	IP65	RS232 Option RS485	2	OIML 10,000 NTEP 10,000	-
		IP54				
8	Basic	IP65	RS232 Option RS485	2	OIML 10,000 NTEP 10,000	-
		IP54				Optional
28	Alphanumeric + Functions	IP65	RS232 Option RS485	2	OIML 10,000 NTEP 10,000	-
		IP54				Optional
5	Basic	IP40; Optional IP54 Panel Cover	RS232 Option RS485	2	OIML 10,000 NTEP 10,000	-
33	Alphanumeric + Functions	IP54 Front Panel; IP40 Enclosure	4 ch. RS232/RS485 Printer	32 (I) 32(O)	OIML 10,000 NTEP 10,000	-
-	-	IP20	RS485; 0-10 V; 4-20 mA		-	-
5	Basic	IP20	RS485; Modbus; 4-20 mA; 0-10 V		-	-
5	Basic	IP20	RS485; Modbus; 4-20 mA; 0-10 V; Profibus (option)	2	-	-



Products	Features
<b>VT 400</b> 	<p>Weight controller provides weighing and control functions for industrial batch/blend/mix process systems. Two opto-isolated control outputs, a choice of up to two serial interface (RS232 and RS485) an analog output (optional) allow full communication with higher level PCs and PLCs. Up to 30 units can be interconnected through the RS485 network. VT 400 is OIML- and NTEP-approved.</p> <ul style="list-style-type: none"> <li>• Panel mount</li> <li>• 70 Samples per second</li> <li>• Two opto-isolated setpoint outputs</li> <li>• RS232 and/or RS485 serial ports</li> <li>• Alibi (Flash) memory</li> <li>• Power supply—24 Vdc</li> <li>• Analog output 0–10 Vdc or 4–20 mA (optional)</li> </ul>
<b>VT 500</b> 	<p>Weighing controller designed for automatic discontinues weighing systems in bulk handling processes. It offers high-accuracy, high speed weighing, extensive control capabilities, easy adaptation and optimization of the process parameters and powerful data management. VT 500 is OIML- and NTEP-approved.</p> <ul style="list-style-type: none"> <li>• Process control terminal</li> <li>• Special software for hopper scales and bagging scales</li> <li>• LED and VFD display</li> <li>• Full alphanumeric keyboard</li> <li>• 228 Samples per second</li> <li>• In-flight compensation capability</li> <li>• Two analog output for PLC interface (option)</li> <li>• 16 Opto-isolated outputs</li> <li>• 16 Digital inputs</li> <li>• Process parameters protected by password</li> </ul>
<b>PS-1040/PS-1045</b> 	<p>Batching system weighing indicator provides digital or isolated analog output signal for tank/bin/hopper weighing systems. High level serial communication is available in RS232, or RS485 format with Modbus RTU or Profibus protocol. Up to 32 transmitters can be connected point-to-point.</p> <ul style="list-style-type: none"> <li>• DIN rail mount digital/analog transmitter</li> <li>• 10 Points load cell linearization</li> <li>• 0–10 Vdc or 4–20 mA isolated analog output</li> <li>• Peak-hold measurement</li> <li>• Datasheet or dead load calibration</li> <li>• Serial communication with Modbus RTU protocol</li> <li>• Profibus interface (option)</li> </ul>
<b>PS-1050</b> 	<p>Batching system weighing indicator provides digital or isolated analog output signal for tank/bin/hopper weighing systems. An isolated 0–10 V or 4–20 mA analog output provides factory floor communication for a data logger, remote panel meter, or PLC input. High level serial communication is available in RS232, or RS485 format with Modbus RTU or Profibus protocol. Up to 32 transmitters can be connected point-to-point.</p> <ul style="list-style-type: none"> <li>• Panel mount</li> <li>• 10 Points load cell linearization</li> <li>• Selectable 0–10 Vdc or 4–20 mA isolated analog output</li> <li>• Peak-hold measurement</li> <li>• Datasheet or dead load calibration</li> <li>• Serial communication with Modbus RTU protocol</li> <li>• Profibus interface (option)</li> </ul>

**VISHAY MEASUREMENTS GROUP:**

Vishay Micro-Measurements

Vishay Transducers

Vishay Systems – Weighing and Force Measurements



One of the World's Largest  
**Manufacturers**  
of Discrete Semiconductors and Passive Components

WORLDWIDE SALES CONTACTS

**THE AMERICAS****UNITED STATES**

VISHAY TRANSDUCERS AMERICAS  
801 SENTOUS AVENUE  
CITY OF INDUSTRY, CA 91748  
UNITED STATES  
PH: +1-800-872-4784 (TOLL FREE\*)  
+1-626-858-8899  
FAX: +1-626-332-3418  
E-MAIL: VT.US@VISHAYMG.COM  
\*US ONLY, OUTSIDE CALIFORNIA

**ASIA****TAIWAN, R.O.C.**

VISHAY TRANSDUCERS TAIWAN\*  
15 FL, NO. 86, SEC.1 SHINTAI 5TH RD.  
SIJHIH CITY, TAIPEI, 22102  
TAIWAN, R.O.C.  
PH: +886-2-2696-0168  
FAX: +886-2-2696-4965  
E-MAIL: VT.ROC@VISHAYMG.COM  
\*ASIA EXCEPT P.R.C.

**P.R.C.**

VISHAY TRANSDUCERS CHINA  
NO. 5 BINGUAN NAN DAO YOUYI RD.  
HEXI DISTRICT  
CODE 300061, TIANJIN, P.R.C.  
PH: +86-22-2835-3503  
FAX: +86-22-2835-7261  
E-MAIL: VT.PRC@VISHAYMG.COM

**EUROPE****UNITED KINGDOM**

VISHAY MEASUREMENTS GROUP UK  
STROUDLEY ROAD, BASINGSTOKE  
HAMPSHIRE RG24 8FW  
UNITED KINGDOM  
PH: +44-125-646-2131  
FAX: +44-125-647-1441  
E-MAIL: VT.UK@VISHAYMG.COM

**GERMANY**

VISHAY MEASUREMENTS GROUP GERMANY  
TATSCHENWEG 1  
74078 HEILBRONN  
GERMANY  
PH: +49-7131-3901-260  
FAX: +49-7131-3901-2666  
E-MAIL: VT.DE@VISHAYMG.COM

**FRANCE**

VISHAY MEASUREMENTS GROUP FRANCE  
16 RUE FRANCIS VOVELLE  
28000 CHARTRES  
FRANCE  
PH: +33-2-37-33-31-20  
FAX: +33-2-37-33-31-29  
E-MAIL: VT.FR@VISHAYMG.COM

**NETHERLANDS**

VISHAY TRANSDUCERS THE NETHERLANDS  
RAMSHOORN 7  
P.O. BOX 6909  
4802 HX BREDA  
THE NETHERLANDS  
PH: +31-76-548-0700  
FAX: +31-76-541-2854  
E-MAIL: VT.NL@VISHAYMG.COM

**ISRAEL**

VISHAY MEASUREMENTS GROUP 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: VT.IL@V

[www.vishaymg.com](http://www.vishaymg.com)[www.vishay.com](http://www.vishay.com)