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TECHNICAL DATA SHEET • FORCE & TORQUE MEASUREMENT EQUIPMENT



Series: Imada DSV

Imada DSV Digital Vector Force Gauge

Precision Handheld Force Gauge with Built-In Tilt Sensor & Data Output

The **Imada DSV Digital Vector Force Gauge** is a simple-to-use, high-accuracy instrument featuring user-friendly menu operation and selectable measurement units (lbf/ozf, kgf/gf, or Newtons). Its built-in tilt sensor with audible alert warns operators of deviations from the reference angle to ensure consistent, repeatable handheld testing.

Built with ergonomic, heavy-duty metal construction, the DSV series offers an ultra-high 30,000/sec sampling rate, 1,000-point internal memory, and USB/RS-232C data outputs for dependable quality control in laboratory and industrial environments.

TECHNICAL SPECIFICATIONS & DEVICE DETAILS

Manufacturer: Imada	**Model Series:** DSV Series (7 Ranges up to 220 lbf / 1000 N)
Accuracy: ±0.2% F.S., ±1 LSD	**Sampling Rate:** 30,000 / second
Tilt Alarm Settings: OFF, Strict (4°), Normal (8°), or Loose (18°)	**Internal Memory:** 1,000 data points (Auto Max, Min, Avg statistics)
Overload Capacity: Approx. 200% F.S. (Alarm at 90%, Flash >110%)	**Outputs & Power:** USB, RS-232C | Ni-MH Batteries (~30 hrs) / AC Adapter

GAUGE HIGHLIGHTS & KEY FEATURES

Engineered to improve repeatability in handheld tension and compression testing, the Imada DSV combines intuitive controls with reliable data logging and overload protection.

- **Built-In Tilt Sensor:** Audible alert notifies users of angular deviations from the reference angle (4°, 8°, or 18° thresholds) to reduce operator error during manual tests.
- **Flexible Display & Security Lock:** 4-digit backlit LCD with selectable real-time or peak mode, programmable High/Low setpoints with OK indicator, and setting lock to prevent accidental changes.
- **Versatile Power & Connectivity:** Operates on user-replaceable internal Ni-MH batteries (approx. 30 hours backlight off / 14 hours on; 4.5-hour full charge) or AC adapter, with USB and RS-232C outputs.

ITEMIZED CONTENTS & ORDERING INFORMATION

COMPLETE KIT INVENTORY (IMADA DSV SERIES)

Component Name	Primary Function / Application	Included
Imada DSV Vector Force Gauge	Digital force gauge with tilt sensor, 1,000-point memory, and USB/RS-232C outputs.	Standard
NIST-Traceable Calibration Cert.	Factory calibration certificate verifying ±0.2% F.S. accuracy (ISO-17025 option available).	Standard
Set of Six Standard Attachments	Includes hook, flat tip, conical tip, chisel tip, notched tip, and extension shaft.	Standard
AC Adapter / Charger	Powers the gauge or recharges internal Ni-MH batteries (also charges via USB port).	Standard
Instruction Manual	Complete operating guide for menu setup, tilt alarm, and data communication.	Standard
Carrying Case	Protective case for secure transport and organized storage of the gauge and attachments.	Standard

ORDERING & PRODUCT OPTIONS

Model Number	Capacity	Resolution
DSV-0.4A	7 ozf | 200 gf | 2 N	0.001 ozf | 0.1 gf | 0.001 N
DSV-1A	17 ozf | 500 gf | 5 N	0.01 ozf | 0.1 gf | 0.001 N
DSV-4A	4.4 lbf | 2 kgf | 20 N	0.001 lbf | 0.001 kgf | 0.01 N
DSV-11A	11 lbf | 5 kgf | 50 N	0.01 lbf | 0.001 kgf | 0.01 N
DSV-44A	44 lbf | 20 kgf | 200 N	0.01 lbf | 0.01 kgf | 0.1 N
DSV-110A	110 lbf | 50 kgf | 500 N	0.1 lbf | 0.01 kgf | 0.1 N
DSV-220A	220 lbf | 100 kgf | 1000 N	0.1 lbf | 0.1 kgf | 1 N



Ready to Order or Request a Quote?
Contact ABQ Industrial sales engineers for pricing, calibration certificates, and delivery options.

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