TELEDYNE HASTINGS INSTRUMENTS Everywhereyoulook

DVT (Digital VT) DCVT (Digital CVT)

Vacuum Measurement

RANGES

DV-4 (0.1 – 20 Torr) DV-5 (0.1 – 100 mTorr) DV-6 (1 – 999 mTorr)

FEATURES

- Linear Analog Output (DCVT):
 0 1 VDC / 0 5 VDC / 0 10 VDC
 0 20 mA / 4 20 mA
- Digital Output RS232 (DCVT)
- Dual Setpoint Control Relays (DCVT)
- Bright, Easy-to-Read Digital Display
- Available in Torr, mbar, or Pascal
- Compatible with Calibration Reference Tubes
- RoHS Compliant

APPLICATIONS

- Refrigeration / HVAC
- Power/Transformer Fill & Maintenance
- Cryogenics/Vacuum Insulation
- Vacuum Coating
- Vacuum Furnaces
- Freeze Drying
- Accelerators

BENEFITS

- Proven Reliability / Less Downtime
- Easy Installation and Operation
- Low Cost



DVT & DCVT Vacuum Measuremen







Description & Specifications

DESCRIPTION

The Teledyne Hastings Instruments' (THI) DVT & DCVT are digital readout versions of the successful VT/CVT-Series "Hastings Gauges" which have generated loyal customers for over 50 years. A reputation has been built on exceptional stability, accuracy, and reliability under the most demanding conditions.

Both the DVT & DCVT feature a precision A/D converter along with a microprocessor to measure the thermocouple vacuum gauge tube's signal output. The microprocessor converts the measurement to a pressure reading by employing the gauge tube's welldefined output/pressure relationship. The result is displayed using a bright 3-digit green LED display. Both the DVT & DCVT are packaged in an 1/8 DIN case which can be panel mounted.

The Digital VT/CVT Vacuum Gauge Meters are available for three of THI's most popular gauge tube families: DV-4, DV-5 and -6. These tubes utilize THI's rugged but sensitive noble metal thermocouples that are designed specifically for each range. Tubes are matched and interchangeable without calibration adjustments. They are compensated for temperature and rate of temperature change and are corrosion resistant.

DCVT - Digital Vacuum Controller

The DCVT includes several enhanced features which makes it an attractive solution for many vacuum control automation applications. The DCVT can provide linear analog output (voltage or current) for integration of vacuum measurement with a PLC or other data acquisition system. In addition, the DCVT provides RS232 communication for direct connection of the instrument to a computer. The DCVT also includes two independent user selectable set point relays for process control. The control relays are durable 10 Amp single pole double throw which can be wired in a normally open or normally closed configuration.

to change.

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CE COMMON SPECIFICATIONS (DVT & DCVT)		
Range	DVT-4 / DCVT-4 0.1–20 Torr DCVT-5 0.1–100 mTorr DVT-6 / DCVT-6 1–999 mTorr	
Digital Accuracy (Display and RS232)	DCVT-4 \pm (20% of reading + 0.01 Torr) (max) DCVT-5 \pm (20% of reading + 0.2 mTorr) (max) DCVT-6 \pm (15% of reading + 1 mTorr) (max)	
Cables	6-ft power cable and 8-ft sensor cable included. Sensor cable lengths up to 100 ft. are available.	

SPECIFICATIONS DVT (Digital VT)

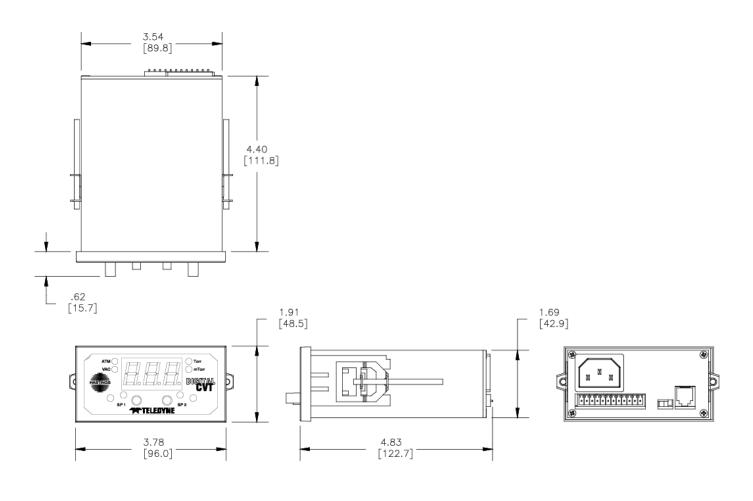
Operating Temperature	5 — 50°C	
Power Requirements With universal power converter (included)	90–240 VAC, 47–63 Hz, 2 W	
DC Input Requirements (If not using universal converter)	4.5–5.3 VDC @ 155 mA	
Connector	6 pin Terminal Block	
Weight (approx.)	0.5 lbs. (0.2 kg)	

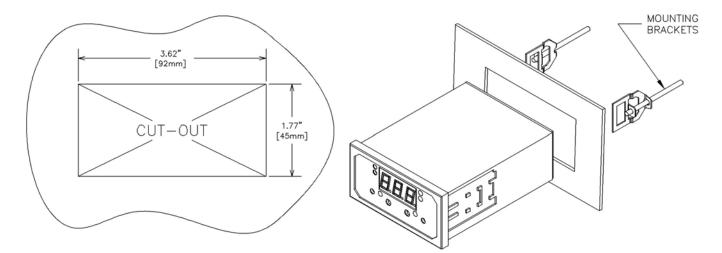
SPECIFICATIONS DCVT (Digital CVT)

Operating Temperature	-20 — 70°C	
Power Requirements	90 - 250 VAC, 47 - 63 Hz, 5 W	
DC Input Requirements (If not using AC input)	22 - 25 VDC, 1.5 W	
Connector (Gauge Tube, Analog Out, Relays)	12 pin Terminal Block	
Connector (RS232 Serial Port)	6P6C Modular	
Weight (approx.)	0.7 lbs. (0.3 kg)	
Analog Output Accuracy	DCVT-4 \pm (20% of reading + 0.02 Torr) (max) DCVT-5 \pm (20% of reading + 0.4 mTorr) (max) DCVT-6 \pm (15% of reading + 2 mTorr) (max)	
Serial Communications	RS232, 9600 — 19200 baud	
Relays	250 VAC @ 10 Amp 100 VDC @ 5 A (max) 5 VDC @ 0.1 Amp (min)	

Hastings Instruments reserves the right to change or modify the design of its equipment without any obligation to provide notification of change or intent

Outline Drawings



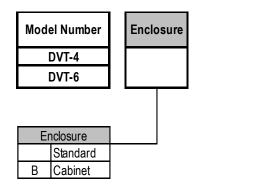


For more information, contact us : Pacwill Environmental 905.643.8000 Toll-Free (Canada): 1-866-840-0014

sales@pacwill.ca www.pacwill.ca



DVT Selection Chart



DVT Shipment Includes

- DVT Electronics Module
- 8 Foot Gauge Tube Cable
- AC/DC Universal Power Supply
- AC Plug Adapter
- Panel Mount Hardware

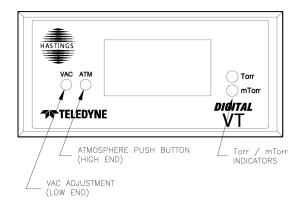


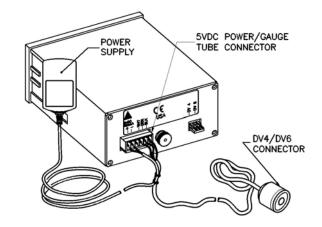


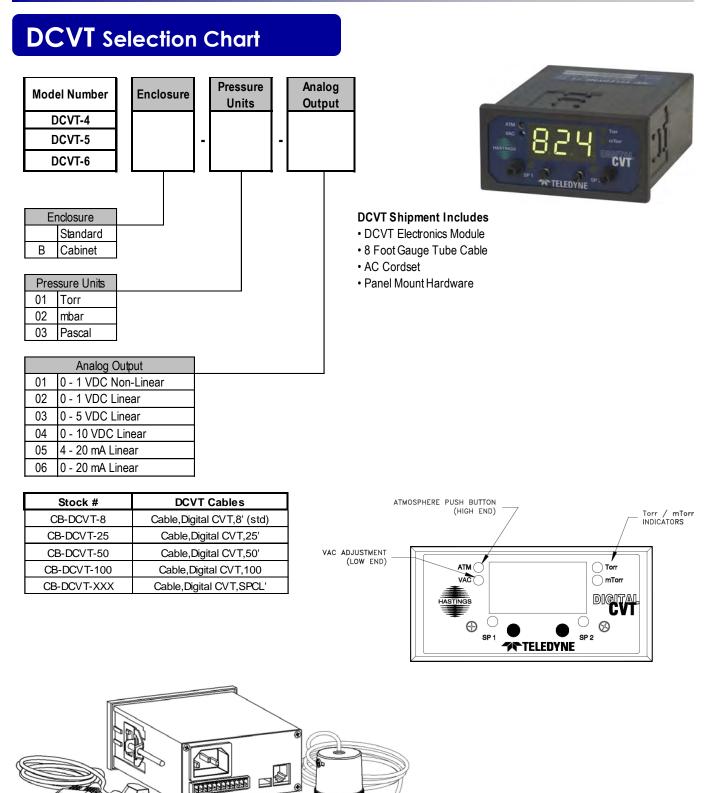
DVT in Cabinet Enclosure

Stock #	DVT Cables
CB-DVT-8	Cable,Digital VT,8' (std)
CB-DVT-25	Cable,Digital VT,25'
CB-DVT-50	Cable,Digital VT,50'
CB-DVT-100	Cable,Digital VT,100
CB-DVT-XXX	Cable, Digital VT, SPCL'

Stock #	DVT Cables
12-01-165	UK Service
12-01-164	European Service







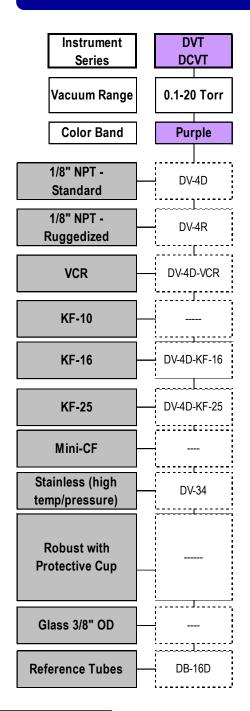
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TUTUTAT

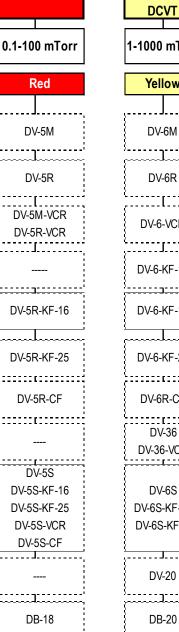


Gauge Tube Selection Chart





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DCVT

1-1000 mTorr Yellow DV-6M DV-6R ___l__ DV-6-VCR DV-6-KF-10 -----DV-6-KF-16 DV-6-KF-25 :::::::::: DV-6R-CF --r---DV-36 DV-36-VCR DV-6S DV-6S-KF-10 DV-6S-KF16

DVT

DV-20 DB-20



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Gauge tubes are sold separately. For an entire list of available gauge tubes for use with the DVT & DCVT, see Product Bulletin PB-105.

For proper accuracy and performance, Teledyne Hastings Vacuum Gauges should always be used with the proper range of Teledyne Hastings Vacuum gauge tubes.