

Teledyne Hastings- DV-4 Series

- **Description**

Precision sensing devices designed to provide accurate measurement and control of vacuum.

- o Thermocouple Gauge Pressure Ranges:
 - Torr: 10^{-2} - 10^{+1}
 - mmHg: 0.01 -10
 - mTorr: 10 – 10,000
 - Pascal: 1.33 – 1,330
- o Wide range of meter, fitting, relay and output options
- o Digital Accuracy: $\pm(x\% \text{ Reading} + 20 \text{ Torr}) \text{ max}$
- o Gauges are calibrated for nitrogen or air
- o Fully compensated for temperature and rate of temperature change with no suspended weld to an external heater

- **Specifications**

Meter / Controller	VT-4A	CVT-24A	DVT-4	DCVT-4	HPM 4/5/6	DAVC-4
Description	Analog Gauge	Analog Controller	Digital Gauge	Digital Controller	Digital Portable Gauge	Digital Microprocessor-Based Gauge
						
Display	Reverse Motion Analog Needle	Reverse Motion Analog Needle	Digital	Digital	Digital	Set Point (High/Low) Indicators
Output	0-1 VDC	0-1 VDC		Choose from options; VDC or mA		Choose from options; VDC or mA
Control Relays		Hi/Lo		Hi/Lo		Hi/Lo
Serial Communications				RS232		RS232
Power	115 vac; 50/60 Hz	115 vac; 50/60 Hz	90-240 vac; 47-63 Hz, 2W	90-250 vac; 47-63 Hz, 5W		
DC Input Requirements			4.5-5.3 VDC @ 155mA	22-25 VDC, 1.5W	9V Battery	11-32 VDC 0.7 W
Power Cable Length	6 Feet	6 Feet	6 Feet	6 Feet	None	1.5 m
Vacuum Sensor Cable Length	8 Feet	8 Feet (other lengths available)	8 Feet (other lengths available)	8 Feet (other lengths available)	Extends to 13 Feet	8 Feet (other lengths available)

	(other lengths available)					
Cabinet Version (B)	✓		✓	✓		

GAUGE TUBES Color Band: Purple	DV-4D	DV-4R	DV-4D-VCR	DV-4D-KF-16	DV-4D-KF-25	DV 34
1/8" NPT Threaded Fitting	✓					
1/4" VCR Male Fitting		✓				
VCR			✓			
KF-16 Fitting				✓		
KF-25 Fitting					✓	
RoHS	✓	✓	✓	✓		
Max Operating Temperature						
Max Positive Pressure	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG
Hermetically Sealed Base with Glass						
Stainless Steel						
Stainless Steel w/Nickel Plated Components						
Protective Caps						
<i>Threaded Metal Included</i>						
<i>Red Caps</i>	✓	✓	✓	✓		
<i>RC-4</i>		✓				
<i>RC-8</i>	✓					

VT-4A (20 Torr Vacuum Gauge, Panel Mount)

VT-4AB (20 Torr Vacuum Gauge, Cabinet)

VT-4S2 (20 Torr Vacuum Gauge, Cabinet, 2 Position Switch)

VT-4S5 (20 Torr Vacuum Gauge, Cabinet, 5 Position Switch)

X Options (PRESSURE UNITS)	Y Options (POWER)
00 = Torr	01 = 0-115 vac
01 = mBar	02 = 0-230 vac
02 = Pascal	

CVT-24A (20 Torr Vacuum Controller, 2 Relays, Panel Mount)

X Options (PRESSURE UNITS)	Y Options (POWER)
00 = Torr	01 = 0-115 vac
01 = mBar	02 = 0-230 vac
02 = Pascal	

Calibration Option: NIST Traceable Certificate with Data

Shipping Approx: 2 Weeks, subject to change – please contact sales@drysdaleassoc.com

DVT-4 (20 Torr Digital Vacuum Gauge, 8' Cable, Standard Enclosure)

DVT-4B (20 Torr Digital Vacuum Gauge, 8' Cable, Cabinet Enclosure)

Cable Options:

CB-DVT-8	Cable, Digital VT, 8 ft.
CB-DVT-25	Cable, Digital VT, 25 ft.
CB-DVT-50	Cable, Digital VT, 50 ft.
CB-DVT-100	Cable, Digital VT, 100 ft.
CB-DVT-XXX	Cable, Digital VT, Special; Custom Length

DCVT-4 (20 Torr Digital Vacuum Controller, 2 Relays, 8' Cable, Standard Enclosure)

DCVT-4B (20 Torr Digital Vacuum Controller, 2 Relays, 8' Cable, Cabinet Enclosure)

X Options (PRESSURE UNITS)	Z Options (ANALOG OUTPUT)
01 = Torr	01 = 0-1 VDC (non-linear)
02 = mBar	02 = 0-1 VDC (linear)
03 = Pascal	03 = 0-5 VDC (linear)
	04 = 0-10 VDC (linear)
	05 = 4-20 mA (linear)
	06 = 0-20 mA (linear)

Cable Options:

CB-DCVT-8	Cable, Digital CVT, 8 ft.
CB-DCVT-25	Cable, Digital CVT, 25 ft.
CB-DCVT-50	Cable, Digital CVT, 50 ft.
CB-DCVT-100	Cable, Digital CVT, 100 ft.
CB-DCVT-XXX	Cable, Digital CVT, Special: Custom Length
CB-RS232-RJ12	Cable, RS232, 9 PIN D to RJ12

DAVC-4 (Digital Active Vacuum Controller, for DV-4, Linear Output)

X Options (PRESSURE UNITS)

01 = Torr

02 = mBar

03 = Pascal

Z Options (ANALOG OUTPUT)

01 = 0-1 VDC (non-linear) * always available on pins 7 & 6

02 = 0-1 VDC (linear)

03 = 0-5 VDC (linear)

04 = 0-10 VDC (linear)

05 = 4-20 mA (linear)

06 = 0-20 mA (linear)

Cables:

CB-DAVC 1.5M	(replacement) DAVC Cable, 1.5m
CB-DAVC-8-AM	(optional) 8 Ft Cable, THCD-100 Pinout H to DAVC

RELATED PRODUCTS

Part Number	Model #	Description
55-101	DB-16D	20 Torr Reference Tube (DV-4D
V-OPT-NIST		National Institute of Standards & Technology Traceable Certificate with Data <small>Sensor Required</small>
INSTALLATION ACCESSORIES FOR GAUGE TUBES		
65-72B	DO-2	Particle Drop Out Trap
65-724	Zeolite Filter	Molecular Sieve Filter
55-116	OS-V	Valved Quick Connect St.
55-117	OS-VR	Valved Quick Connect RA
55-118	OS-V2	Dual Valved Quick Connect
28-13-015	OS-A	Quick Connect (5/8" OD)
28-13-016	OS-B	Quick Connect (3/8" OD)
28-13-008	OS-C	Quick Connect (8 mm OD)
28-13-027	OS-F	Quick Connect (1/8" NPT)
55-127	OS-G	Plug for Quick Connect
28-06-284	OS-H	Teflon Seal Nuts (1/8" NPT)
EXTENTION GAUGE TUBE CABLES FOR VT-SERIES		
55-3	OM-8-OFV	8 Ft Extension Cable

55-22	OM-12-OFV	12 Ft Extension Cable
65-53	OM-25-OFV	25 Ft Extension Cable
65-102	OM-50-OFV	50 Ft Extension Cable
55-142	OM-100-OFV	100 Ft Extension Cable
CB-VT-EXT-XXX	OM-XXX-OFV	Custom Length Ext. Cable
GAUGE TUBE CABLES FOR VT-4S5/6S5:		
55-5	CF-8-OFV	8 Ft Sensor Cable
55-23	CF-25-OFV	25 Ft Sensor Cable
55-47	CF-50-OFV	50 Ft Sensor Cable
65-47	CF-100-OFV	100 Ft Sensor Cable
ADAPTOR GAUGE TUBE CABLES FOR DV-34 & DV-36		
65-96	OM-1-MSF	1 Ft Adapter Cable for DV-34 (50° C Ambient)
VT/CVT REPLACEMENT GAUGE TUBE CABLES		
65-556	LUG-8-OFV	8 Ft Cable with lugs & socket
65-134	LUG-25-OFV	25 Ft Cable with lugs & socket
65-557	LUG-50-OFV	50 Ft Cable with lugs & socket
65-557 special	LUG-XX-OFV	Custom Length Cable with lugs & socket
ACCESSORY ITEMS		
28-07-050		Octal Female Socket
16-08-011		Octal Male Plug
16-18-047		Octal Socket Cover with Grip
65-575		Extension Plug, Octal
28-07-049		HPM-4/6 Octal Socket, Cover & Relief
CB HPM 4/5/6		Replacement Cable for HPM-4/5/6
65-757		6' AC Line Cord with lugs