



**TELEDYNE**  
**HASTINGS INSTRUMENTS**  
Everywhereyoulook™

# **Teledyne Hastings Instruments**

## **Vacuum Products Overview**



# **Teledyne Hastings uses three methods to measure vacuum:**

- 1. Direct Force**
- 2. Thermal Energy Transfer**
- 3. Ionization**



# THPS-760 Plus / HPM-760S



- Range: 0.1 to 1000 Torr
- Piezoresistive sensor
- 316SS wetted surfaces
- Multiple fittings available
- Linear output
- Transducer available in:
  - 0 – 5 vdc
  - 0 – 10 vdc
  - 4 – 20 mA
  - 2 – 10 mA
- Available power supply / display / controller with 2 setpoints – relays (works with 0 – 10 vdc transducer)

# Thermocouple Gauge Tubes



- Ranges:
  - DV-4: 0.1 – 20 Torr
  - DV-6: 1 – 1000 mTorr
  - DV-5: 0.2 – 100 mTorr
  - *Tubes are color-coded by range*
- Simple / Reliable / Economical
- Multiple fittings available
- Multiple application configurations for:
  - Materials of construction
  - Increased Pressure & Temperature
  - Vibration
  - Outdoor service



# Gauges for Thermocouple Gauge Tubes



## VT / CVT

- Dial-face display
- Controller version available with set points
- 0-1 vdc output standard
- Cabinet Mounted version (VT)



## Digital

### VT & CVT

- Digital display
- Controller version available with set points
- RS232



## HPM 4/6

- Hand-held portable
- Battery powered
- Digital display
- Carrying case included



## DAVC

- System Mounted
- 0-1 vdc output
- Set point
- RS232



# HPM-2002 & OBE



- Range:  $10^{-4}$  – 1000 Torr
- Uses HPM-2002S sensor
- Hybrid sensor includes:
  - Piezoresistive
  - Thin film pirani
- Panel mount or system mount
- Multiple fittings available
- Outputs / Communication:
  - 0-5 vdc
  - 0-10 vdc
  - 4-20 mA
  - RS232 / RS485
- Sensors are exposed to gas (and contamination)

# IGE-3000



IGE-3000

IGE-3000S  
(sensor)

- Range:  $10^{-10}$  –  $10^{-2}$  Torr
- Miniature Bayard-Alpert ionization gauge
- System mount
- Multiple fittings available
- Communication:
  - RS232
  - RS485
  - Analog outputs not available
- Automatic or selectable emission current
- Purchase sensor and electronics separately