



# CC-10 Wide Range Active Vacuum Gauge

## Part Number: 2-7980-0XX



### Sample RS-485 Commands (assume address 0)

<STX>0R1<CR>	Read units
<STX>0R2<CR>	Read SP1L and SP1H
<STX>0R5<CR>	Read analog output set parameter
<STX>0W1XXXX<CR>	Set pressure unit
<STX>0W2XXXXXXXX<CR>	Set SP1L and SP1H
<STX>0C1<CR>	Crystal gauge atm adjustment
<STX>0S1<CR>	Read pressure data
<STX>0S2<CR>	Read error status

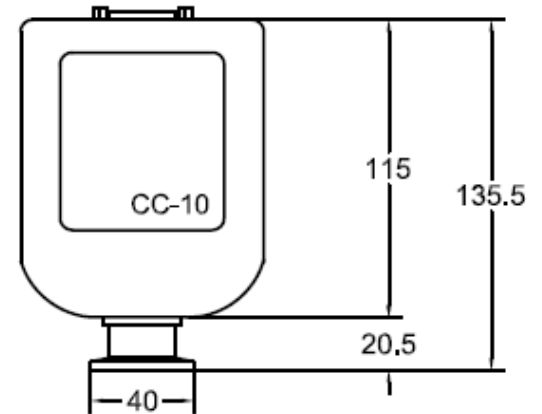
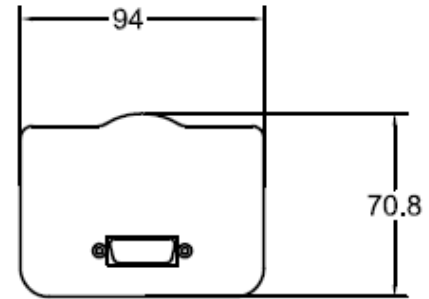
### Electrical Connections

Pin	Description
1	Analog Out (Ground)
2	RS-485 A (-)
3	SP3 Out
4	SP2 Out
5	SP1 Out
6	Zero adjust input (signal in)
7	EXT Vcc (signal in)
8	Supply voltage (+)
9	Analog Out (0 to 10) V
10	RS-485 B (+)
11	SP2, SP3 COM
12	SP1 COM
13	HV inhibit signal (signal in)
14	Atm adjust input (signal in)
15	Supply Voltage (-)

### Set Points

The CC-10 has three set points. All three are optically coupled solid state relays that are rated for 0.12 A at 50 V DC. Each set point has hysteresis characteristics and consists of two set values: upper threshold and lower threshold. LEDs on the front panel display the status of each set point. The high and low threshold values of each of the three set points can be set independently.

### Dimensional Drawing



NW 25 Flange

\*Dimensions in mm

### Ordering Information

Part Number	Description
2-7980-031	NW25/KF25 Stainless Steel
2-7980-032	NW40/KF40 Stainless Steel
2-7980-052	2.75" CF Stainless Steel

### D-Sub-15, 15 Conductor Cable (flying leads)

Part Number	Length
2-9858-010	10 ft (3 m)
2-9858-020	20 ft (6 m)
2-9858-035	35 ft (10 m)
2-9858-050	50 ft (15 m)
2-9858-100	100 ft (30 m)

### Wall Power Supply

Part Number	Description
2-7900-097	100-240 V AC/47-63 Hz, plug types A, C, G, I

### Replacement Sensors

Part Number	Description
2-7900-099	Anode Assembly

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**Additional Documentation**

Manual	<a href="#">CC-10 Wide Range Active Vacuum Gauge Manual</a>
AN3010	<a href="#">Torr Scientific/Torr Decimal/mTorr/Micron Conversions</a>
AN3015	<a href="#">Recommended Practices for Vacuum Calibration</a>
AN3020	<a href="#">Vacuum Terminology Reference</a>
Resource	<a href="#">Televac<sup>®</sup> Tolerances</a>

**Company Information**

**Specialty manufacturing services that promise precision -**

For more than 85 years, Fredericks has specialized exclusively in tilt and vacuum measurement products. Today, our precise manufacturing processes produce the most accurate and advanced products on the market, ensuring perfection every time. A true specialty service provider, we are willing and eager to put our experience and capabilities to good use, helping OEMs achieve even the most complex designs.

**High performance products designed and manufactured with pride -**

Fredericks is a global provider and U.S. manufacturer and designer of high-performance tilt and vacuum measurement products. Built to last, our products are made with state-of-the-art sensing technology, proven processes, and an intrinsic passion for the trade. Offering simple integration and quality and safety benchmarks, our customers benefit not just from standard-setting reliability, but from our commitment to competitive pricing and performance.

**A partnership that prioritizes uptime, lead time, and service -**

Fredericks guarantees customer satisfaction and our 'not too big, not too small' operation is what enables us to offer a true partnership experience. Our dedicated representatives and engineers offer exceptionally responsive service and some of the fastest lead times in the industry, knowing that uptime is the key to your success. With anytime-access to our leadership team and solutions that enhance your products, you will feel the Fredericks difference.

**Vacuum measurement tools built for the toughest jobs -**

Fredericks' world-class vacuum sensors, gauges, and control instrumentation are engineered for the most demanding applications and environments. Our patented Televac<sup>®</sup> and ETI vacuum brands feature cold-cathode technology, thermocouple and convection gauges, and precision-manufactured hot ionization gauges. Dedicated solely to vacuum gauging and calibration services, we provide industrial heating, national laboratories, cryogenics, and industrial gas applications, among many others, with fast lead times and industry-leading performance. Covering the entire practical vacuum range, our products deliver rapid response vacuum readings and superior sensitivity.

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