



MX7B Cold Cathode Ionization Active Vacuum Gauge

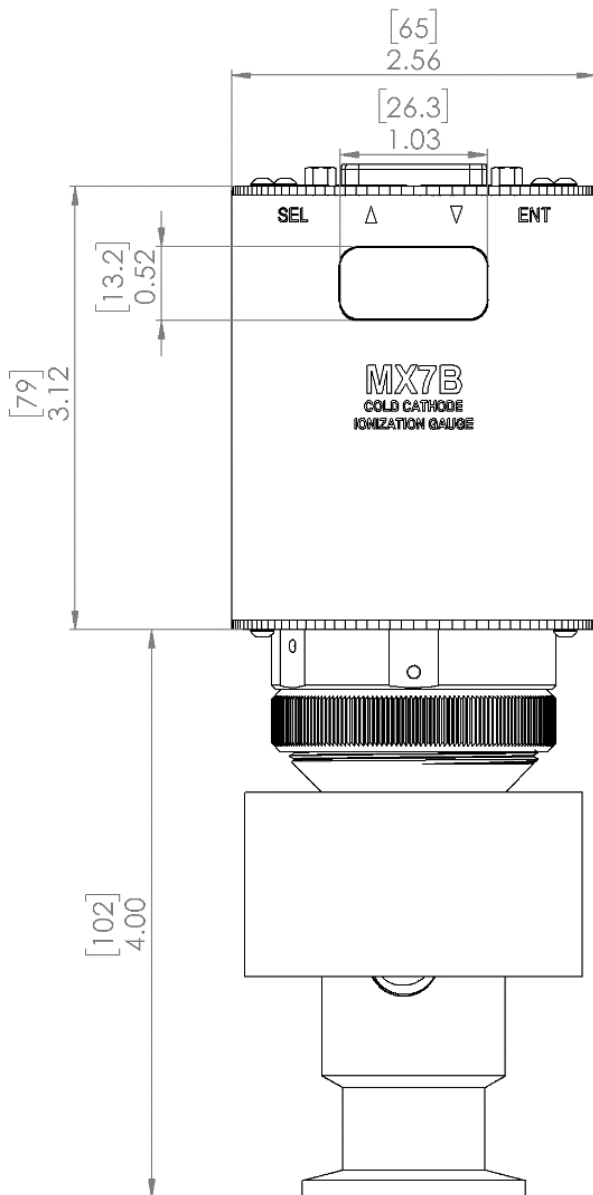
Part Number: 2-8940-XXX

Set Points

The MX7B has two set points. Set point 1 is an N-Channel 60 V MOSFET open collector. It has a maximum current rating of 1 A. The datasheet can be found at www.vishay.com/en/product/69958/.

Set point 2 is a relay with a maximum switching voltage of 220 V DC (250 V AC) and a maximum switching current of 2 A. The datasheet can be found at www.te.com/catalog/pn/en/1393788-3.

Dimensional Drawing



Ordering Information

Part Number	Description
2-8940-NPT	3/4" NPT Brass
2-8940-075	3/4" Straight Brass
2-8940-100	1" Straight Brass
2-8940-125	1 1/4" Straight Brass
2-8940-KF25	NW25/KF25 Stainless Steel

D-Sub 15, 6 Conductor Cable (flying leads)

Part Number	Length
2-9873-020	20 ft (6 m)
2-9873-050	50 ft (15 m)
2-9873-100	100 ft (30 m)

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)
2-9858-065	65 ft (20 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
2-2171-NPT	3/4" NPT Brass
2-2171-075	3/4" Straight Brass
2-2171-100	1" Straight Brass
2-2171-125	1 1/4" Straight Brass
2-2171-KF25	NW25/KF25 Stainless Steel

Replacement Parts

Part Number	Description
2-7900-707	Anode Assembly

Compatible Vacuum Controller

Part Number	Description
2-8900-100	MX Active Gauge EthernetIP Gateway

Full Range Active Vacuum Gauge Solutions

Part Number	Description	Supporting Document
2-8910-1XX	MX2A Thermocouple	Application Note AN3023
2-8930-1XX	MX4A Convection	Application Note AN3023

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Part Number: 2-8940-XXX

Additional Documentation

Manual	MX7B Cold Cathode Active Vacuum Gauge Manual
AN3002	Cleaning the 7B Cold Cathode Gauge
AN3010	Torr Scientific/Torr Decimal/mTorr/Micron Conversions
AN3015	Recommended Practices for Vacuum Calibration
AN3020	Vacuum Terminology Reference
AN3023	Automatic Control of an MX7B with an MX2A/MX4A
Video	MX7B Cold Cathode Overview
Video	MX7B Disassembly Demonstration
Resource	Televac[®] Tolerances

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[®] 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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