

Nuclear Qualified

Analog Switchboard Instruments

- **1E Safety Rating** for use in nuclear power plants
- **Proven Westinghouse designs**
- **Fits standard ANSI panel cutouts**
- **1% or 1.5% accuracy**
- **Direct upgrade from commercial meters**
- **Rugged taut band movement**
- **Direct replacement for Yokogawa AB40 and 180 Models**



▲ KX-241

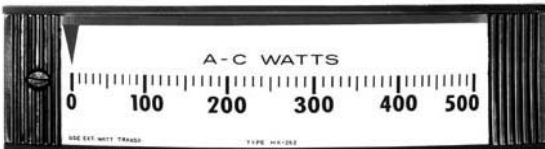


▲ KC-241



◀ VX-252

▼ HX-252



Weschler Nuclear Qualified Analog Switchboard Meters are intended for use in applications where accurate and reliable measurement of a process value is of paramount importance. This series is designed to meet or exceed all national nuclear standards for environmental, temperature and humidity extremes, seismic vibration and human factors.

These qualified meters are available for direct measurement of standard electrical quantities, including signals from transducers for measuring any other electrical or mechanical quantity that can be converted into a proportional electrical quantity.

Type KX-241 and KC-241 (AC rectifier) circular scale instruments are built with a permanent-magnet moving coil mechanism and taut-band suspension. Type KA-241 AC instruments employ an iron vane and taut-band suspension. This construction provides top performance and long life under adverse conditions of shock and vibration. Case material is steel with a shatter-proof poly-carbonate window. The window is flat to reduce light reflections. The beveled dial scale reduces shadows and provides a 60 degree viewing angle.

Type 252 edgewise instruments were designed specifically for the nuclear power industry. Their ruggedness and reliability make them an excellent choice for any control panel. These instruments incorporate the same taut-band suspension system that is used in Weschler K-241 meters. The case and lens are high impact, flame retardant polycarbonate.

Types Available

Function	Ranges	Type	Method
DC Microammeter	50µA to 1mA	KX-241, VX-252, HX-252	Self-contained
DC Ammeter	1A to 50A	KX-241, VX-252, HX-252	Self-Contained
DC Millivoltmeter	50mV to 1V	KX-241, VX-252, HX-252	Self-contained
DC Milliammeter	1mA to 1A	KX-241, VX-252, HX-252	Self-contained
DC Voltmeter	1V to 800V	KX-241, VX-252, HX-252	Self-contained
Rectifier AC Milliammeter	1mA to 1A	KC-241, VC-252, HC-252	Self-contained
AC Ammeter	1A to 17A	KA-241, VC-252, HC-252	Self-contained
AC Voltmeter	5V to 600V	KA-241, VC-252, HC-252	Self-contained

See more information online at weschler.com/nuclear

Made in USA



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Specifications

Accuracy	K-241:	1% accuracy class
	V-252:	1.5% of full scale deflection, 1% on special order
Scale Length	K-241:	7.1" (180mm) for 250° deflection
	V-252:	4.8" (122mm)
Waveform Compensation:	to 15% of third harmonic content	
Instantaneous Overload:	35x AC rating, 100x DC rating	
Working Voltage to Ground:	1200V dc or peak ac, 800V ac rms (V-252), 800 V (K-241)	
Shielding:	Magnetically shielded	
Net Weight	K-241:	3 to 5 lbs (1.4 to 2.2 kg)
	V-252:	1.0 to 1.4 lbs (0.45 to 0.64 kg)

Standards:

ANSI C39.1-1981
IEEE 323: 2003
IEEE 344: 2004
Reg Guide 1.100
EPRI TR-107330

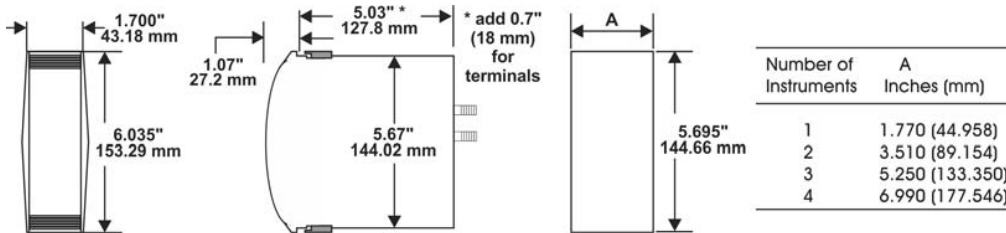
Popular Styles (specify scale & legend)

Input	K-241	V-252	H-252
0-5 V DC	100N000308	100N008012	100N008021
0-10 VDC	100N000305	100N008013	100N008022
0-150 V DC	100N000307	100N008014	100N008023
0-1 mA DC	100N000301	100N008003	100N008024
4-20 mA DC	100N000302	100N008005	100N008025
10-50 mA DC	100N000309	100N008020	100N008026
0-50 mV (shunt rated)	100N000310	100N008015	100N008027
0-150 VAC	100N000601	100N008006	100N008008
0-5 AAC	100N000603	100N008007	100N008009
0-5 AAC (transformer rated)	X100N000603	X100N008007	X100N008009

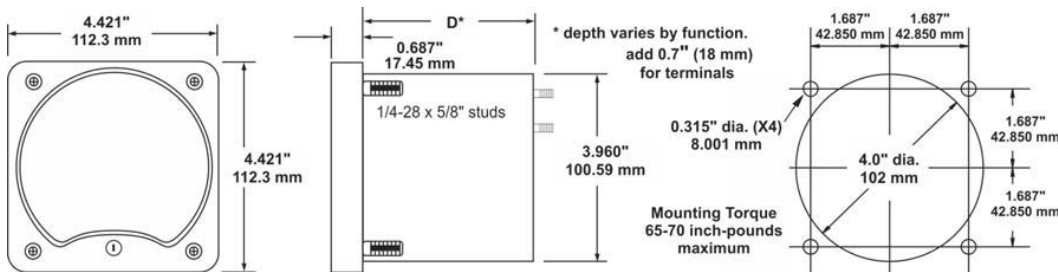
Options

- Custom Scales
- Custom legends
- Red pointer
- Color zones
- Black dial
- Non-glare window
- Dual scale or rating
- Straight fine tubular pointer
- Offset, center, or suppressed zero
- Weather resistant cover (K-241)
- Special calibration

Case Dimensions



Terminal Connections
(VP840 Transducer shown)



Function	D Inches (mm)
DC	2.813 (71)
AC	3.750 (95)

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