

JCI 148 Electrostatic Voltmeter Adapter - Compatible with JCI 140 Static Monitor

The JCI 148 can be used for accurate measurement of DC voltages with negligible current drain.

General Description

The **JCI 148 Electrostatic Voltmeter** comprises a shielding enclosure in which an electrode, connected to the input, is supported by high quality insulation in a well-defined and stable geometric arrangement relative to the sensing aperture of a JCI 140 Static Monitor. The geometry is such that the numbers shown on the display correspond directly to the applied voltage input in kV.

The attraction of an electrostatic voltmeter based on the JCI 140 Static Monitor is the near zero current drain (limited only by insulation leakage not less than 10^{14} Ohms at up to 20kV), the high sensitivity (1V resolution in 2kV range), the low internal capacitance (about 7pF), high input time constant and the linearity of response. The JCI 148 is not suitable for use with the JCI 140X/ XF versions of the JCI 140

Specification

Ranges:	2kV & 20kV full scale. 1V and 10V resolution
Accuracy & linearity:	Within $\pm 2\%$ FSD on JCI 140 display and analogue output signal
High voltage connection:	Special JCI HV protective connector
Maximum input voltage:	± 20 kV

Benefits:

- > Indicates surface voltage (on JCI 140 LCD)
- > Resolution to 1V & full scale 20kV (standard version, used as per manufacturer's instructions)
- > Allows monitoring of a specific location
- > Very high input impedance not less than 10^{14} ohms.

Accessories & Services

- > Basic and enhanced calibration available to BS7506: Part 2:1996

Required Instrument

- > JCI 140 Static Monitor



DEKRA Process Safety

The breadth and depth of expertise in process safety makes us globally recognised specialists and trusted advisors. We help our clients to understand and evaluate their risks, and work together to develop pragmatic solutions. Our value-adding and practical approach integrates specialist process safety management, engineering and testing. We seek to educate and grow client competence to provide sustainable performance improvement. Partnering with our clients we combine technical expertise with a passion for life preservation, harm reduction and asset protection. As a part of the world's leading expert organisation DEKRA, we are the global partner for a safe world.

Process Safety Management (PSM) Programmes

- > Design and creation of relevant PSM Programmes
- > Support the implementation, monitoring, and sustainability of PSM Programmes
- > Audit existing PSM Programmes, comparing with best practices around the world
- > Correct and improve deficient Programmes

Process Safety Information/Data (Laboratory Testing)

- > Flammability/combustibility properties of dusts, gases, vapours, mists, and hybrid atmospheres
- > Chemical reaction hazards and chemical process optimisation (reaction and adiabatic calorimetry RC1, ARC, VSP, Dewar)
- > Thermal instability (DSC, DTA, and powder specific tests)
- > Energetic materials, explosives, propellants, pyrotechnics to DOT, UN, etc. protocols
- > Regulatory testing: REACH, UN, CLP, ADR, OSHA, DOT
- > Electrostatic testing for powders, liquids, process equipment, liners, shoes, FIBCs

Specialist Consulting (Technical/Engineering)

- > Reactive chemical, self-heating, vent sizing, and thermal instability hazards
- > ATEX / DSEAR & hazardous area classification
- > Mechanical equipment ignition risk assessment
- > Transport & classification of dangerous goods
- > COMAH & SEVESO compliance
- > PHA support & facilitation
- > LOPA & SIL
- > Occupied buildings risk assessment
- > Fire engineering
- > Cybersecurity

We have offices throughout North America, Europe, and Asia.

For more information, visit www.dekra-process-safety.co.uk

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Would you like to get more information?

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