

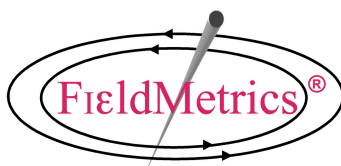
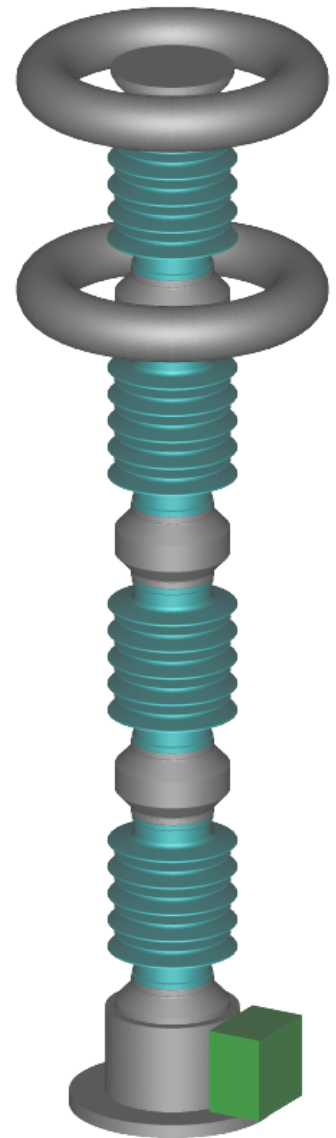
FMPT Voltage Sensor

The FMPT voltage sensor is a high accuracy voltage measurement solution for transmission and distribution utility applications. By combining high-reliability components in a patent-pending design, the FMPT uses no insulating oil or SF₆ gas, yet provides a robust dielectric design meeting Pollution Class II requirements with class 0.3 metering accuracy and class 3P protection accuracy from -40 to +70 °C, with extended operating ranges of -50 °C and +85 °C available.

Weighing less than 20% of same-class conventional equipment, the FMPT accommodates a wide variety of unconventional mounting schemes. With no wound iron core, the FMPT is not susceptible to ferro-resonance effects, and provides a wide bandwidth capability for accurately monitoring voltage disturbances at line harmonics and very low frequencies.

The modular design allows flexibility to address a wide range of voltage classes. The FMPT is currently available for applications from 13.8 kV to 138 kV. Contact FieldMetrics® regarding development of the FMPT for applications up to 765 kV.

The FMPT can be combined with other FieldMetrics® products to form complete measurement solutions.



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FMPT-138

138 kV Voltage Sensor

Specifications

Dielectric:

Voltage Class	138 kV
AC nominal voltage	80 kV rms
AC withstand 1 minute	275 kV rms
AC wet test 1 minute	275 kV rms
BIL full wave, 15 each polarity	650 kV peak
BIL chop wave, 2 each polarity	750 kV peak
Partial discharge, 96 kV, 1 min.	<5 pC
Strike distance	53 inches / 1346 mm
Creepage distance	146 inches / 3720 mm
IEC Pollution Class	2

Measurement:

Ratio	80,000:1 (700:1*)
Output VA	<0.1 VA (75 VA*)
Accuracy Class	0.3 meter, 3P relay
Bandwidth	<5 Hz - 5 kHz
Temperature range	-40 to +70 °C†

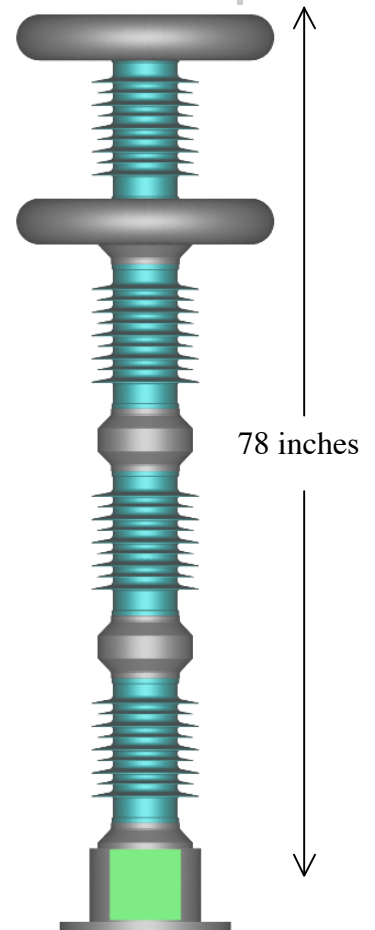
*when combined with FMRI relay interface

†extended temperature range to -50 °C and +85 °C available

Other:

Height	78 inches / 1981 mm
Weight	150 pounds / 68 kg
Interface box	NEMA 4X / IP-65 Al
Insulating gas	Nitrogen
Gas pressure at 20 °C	15 psig

Mounting base bolt pattern and high voltage connection will be adapted to customer requirements.



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