

NEMTEK
Electric Fencing Products



FENCESCOPE™

MULTITOOL

Helping you diagnose and optimise
your electric fence installation

Four user selectable modes of operation:

- Fence Probe – quickly indicates the direction of a fault, showing the voltage and current
- Fence Energy – accurately measures the output energy (joules)
- Fence Scope – can record and display the waveform of the pulse
- Fence Noise – shows the amount of electromagnetic interference generated by the fence or energizer

Features:

- Advanced high speed 16 bit microprocessor design for high accuracy and measuring speed
- Large graphic display with resolution of 128 x 64 picture elements for ease of reading in the field
- Backlit display for ease of reading in low light conditions
- Intelligent auto off function for non intrusive battery life extension
- Internal battery voltage measurement for precise battery status
- Simple five key user interface
- Designed for use from -16.0 to 16.0 kV to measure the outputs of most energizers available
- Supplied with high quality test clips and leads
- Supplied with additional external load resistor assembly enabling characterisation of an energizer at 500 ohm

Accuracy Specification

Mode	Range	Displayed measurements	Displayed Resolution	Accuracy (Typ at 25 °C)	Accuracy over temperature (-10 °C to 50 °C)
FENCE PROBE					
	0.00 s to 15.99 s	Period	0.01s	±0.2% + 0.01s	±0.3% + 0.01s
	-16.0 kV to +16.0 kV	Peak Voltage *	0.1kV	±20% + 120V	
		Peak Voltage **	0.1kV	±2% + 120V ***	±3.5% + 120V ***
	-50.0 A to +50.0 A	Peak Current *	0.1A	±50% + 0.4A	
		Direction of current flow			
FENCE ENERGY (1 000 ohm load)					
	Energy	0.01J	±4% + 0.01J	±7% + 0.01J	
	-16.0 kV to +16.0 kV	Peak Voltage	0.1kV	±2% + 13V	±3.5% + 130V
	-16.0 A to +16.0 A	Peak Current	0.1A	±2% + 0.1A	±3.5% + 0.1A
	0.0 kV to +16.0 kV	RMS Voltage	0.1kV	±2% + 130V	±3.5% + 130V
FENCE SCOPE (X1, X2, X4, X8)					
x1 (1.4ms)	16kV	Sampled waveform	500V / pixel	±2% + 130V	±3.5% + 130V
x2 (720us)	8kV	Sampled waveform	250V / pixel	±2% + 130V	±3.5% + 130V
x4 (360us)	4kV	Sampled waveform	125V / pixel	±2% + 130V	±3.5% + 130V
x8 (180us)	2kV	Sampled waveform	60V / pixel	±2% + 130V	±3.5% + 130V
FENCE NOISE					
	DC to 83 kHz	DFT display *	651 Hz		
	0 to 6 600 count	Noise count *	1 count		

Notes:

* For indication only

** This function uses a peak detect circuit with an RC time constant of around 10us

*** When using the ground return lead for greater accuracy

Contact us

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