

## ENERGIZERS

### WIZORD™ 2 and 4 (SINGLE ZONE)



The Wizord 2 or 4 is the logical choice for domestic and light industrial installations where a medium-powered energizer is required. This generation of energizers has been field tested for many years and boasts unsurpassed reliability. Simple to install and easy to maintain.

#### FEATURES

- High voltage monitor will alarm when the live wires are tampered with
- Earth wire monitor will alarm when the earth wires are tampered with
- Easy-to-use tag switch for controlling the unit
- Connectable to an armed response radio or GSM module
- Gate monitor input monitors the position of the gate to indicate if the gate is open
- Lightning and power surge suppression built in to reduce the possibility of damage due to power surges
- Battery backup system in case of power failure
- Intelligent power saving to extend the battery life and save energy
- Siren and strobe outputs to indicate fence condition

### MERLIN 4 (SINGLE ZONE)



The Merlin 4 offers what the Wizord 4 has in terms of features, but with remote control through a dedicated keypad. The keypad also allows the user and the installer to programme and control the energizer from a remote location. This allows the energizer to be installed near the fence and the keypad to be located where it is most convenient for the user. Additional features that the standard Wizord does not have can be enabled through the keypad.

#### FEATURES

- Voltage outputs can be controlled to reduce or increase the output energy as required by the user
- Low voltage mode option to reduce power on the fence, and yet keep the alarming capability intact
- Gate chime to notify if the gate has been opened and closed
- Bypass options for the siren, strobe and gate as required
- Siren times can be programmed to suit the different needs of the user

## ENERGIZER SPECIFICATIONS

Nemtek Energizer Brand	Wizord		Merlin	Merlin Stealth™				Stealth Master		Druid					
Model Number	2	4	4	M15S	M18S	M25S	M28S M28X	M25M	M28M	13 LCD	15 LCD	18 LCD	114 LCD	24 LCD	
<b>Energizer Dimensions</b>															
	L180 x W205 x D120			L365 x W230 x D140					L180 x W205 x D120		L365 x W230 x D140				
<b>High Voltage Outputs</b>															
Typical energy output into 500 Ohms load (Joules)	2J	3.7J	3.7J	4.8J	7.6J	4.8J	7.6J	4.8J	7.6J	3J	4.6J	7.6J	13.8J (150 Ω)	1.9J x 2 zones	
Output Voltage into an open circuit	7 400V	8 000V	8 000V	8 500V	9 300V	8 500V	9 300V	8 500V	9 300V	9 000V	9 000V	9 600V	9 000V	10kV	
High or Low Voltage modes, alarm monitoring is enabled in both modes. Output voltage settings can be changed for both the High and the Low voltage modes	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Number of High Voltage monitored zones	1	1	1	1	1	2	2	2	2	1	1	1	1	2	
Number of Earth loop monitored zones	1	1	1	1	1	2	2	2	2	1	1	1	1	2	
Adaptive Power Technology (APT), reducing false alarms and arcing on the fence	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	
Fence Interference detection from foreign energizers	No	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	
<b>Energizer Controls and Displays</b>															
Keypads for the remote control of the energizer	No	No	4 max 1 incl	4 max	4 max	4 max	4 max	4 max	4 max	2 max	2 max	2 max	2 max	2 max	
Tag switch – to control the energizer without using a keypad	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Remote On/Off input	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes	
Displays the output and return voltages	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	
Display type	LED	LED	LED	LED	LED	LED	LED	LED	LED	LCD	LCD	LCD	LCD	LCD	
<b>Gate and Panic Button inputs</b>															
Timed gate switch input, used to monitor open and closing of the gate	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes	
Panic button input	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes	
<b>Alarm outputs</b>															
Siren output, time programmable	Fixed	Fixed	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Strobe light output to visually indicate an alarm condition	1	1	1	1	1	2	2	2	2	1	1	1	1	2	
<b>Power supply and battery backup systems</b>															
Mains supply voltage***	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	100 – 240Vac / 50 – 60Hz	
Typical power consumption under normal operating conditions	17VA	18VA	16VA	27VA	27VA	27VA	27VA	27VA	27VA	18VA	18VA	25VA	27VA	25VA	
Internal battery backup system in case of power failure, capacity of battery	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	
Typical standby time, with a fully charged battery	24 hrs	36 hrs	24 hrs	6 hrs	8 hrs	7 hrs	6 hrs	7 hrs	6 hrs	24 hrs	24 hrs	24 hrs	9 hrs	24 hrs	
Solar power panels can be connected to power the energizers, (recommend Watt size for 24 hr operation)**	60 Watts	60 Watts	60 Watts	120 Watts	140 Watts	120 Watts	140 Watts	120 Watts	140 Watts	60 Watts	60 Watts	140 Watts	140 Watts	60 Watts	

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Solar voltage regulator	5 Amp	5 Amp	5 Amp	9 Amp	10Amp	9 Amp	10Amp	9 Amp	10Amp	5 Amp	5 Amp	10Amp	10Amp	5Amp
Deep cycle battery size recommended in Amp hours (20 % discharge over a 24 hr cycle)	60 Ah	60 Ah	60 Ah	120 Ah	150 Ah	120 Ah	150 Ah	120 Ah	150 Ah	60 Ah	60 Ah	150 Ah	150 Ah	60 Ah
<b>Wire length per energizer (live wires in a series system) for both solid and stranded wires</b>														
<b>Galvanised wires, 1.2mm</b>														
• Optimal performance up to	2km	3km	3km	8km	10km	2x4km	2x5km	2x4km	2x5km	3km	5km	10km	15km	2x2km
• Maximum	4km	5km	5km	18km	25km	2x9km	2x13km	2x9km	2x13km	5km	8km	25km	35km	2x4km
<b>Galvanised wires, 2.0mm, 2.24mm</b>														
• Optimal performance up to	3km	4km	4km	16km	20km	2x8km	2x10km	2x8km	2x10km	3.3km	5km	20km	20km	2x3km
• Maximum	6km	10km	10km	35km	50km	2x17km	2x25km	2x17km	2x25km	6.6km	12km	50km	50km	2x6km
<b>Stainless Steel 1.0mm, 304 and 316 grade</b>														
• Optimal performance up to	0.5km	0.6km	0.6km	0.6km	0.7km	2x0.7km	2x0.8km	2x0.7km	2x0.8km	0.6km	0.7km	0.8km	0.9km	2x0.5km
• Maximum	0.6km	0.9km	0.9km	0.9km	1km	2x1km	2x1.2km	2x1km	2x1.2km	0.9km	1km	1km	1.2km	2x0.6km
<b>Stainless Steel 1.2mm, 304 and 316 grade</b>														
• Optimal performance up to	0.6km	0.7km	0.7km	0.8km	1km	2x0.8km	2x1km	2x0.8km	2x1km	0.7km	0.8km	1km	1km	2x0.6km
• Maximum	0.9km	1km	1km	1.1km	1.3km	2x1.1km	2x1.3km	2x1.1km	2x1.3km	1km	1.1km	1.3km	1.3km	2x0.9km
<b>Stainless Steel 1.6mm, 304 and 316 grade</b>														
• Optimal performance up to	1.2km	1.4km	1.4km	1.6km	2km	2x1.6km	2x2km	2x1.6km	2x2km	1.4km	1.6km	2km	2km	2x1.2km
• Maximum	1.8km	2km	2km	2.2km	2.6km	2x2.2km	2x2.6km	2x2.2km	2x2.6km	2km	2.2km	2.6km	2.6km	2x1.8km
<b>Stainless Steel 2.0mm, 304 and 316 grade</b>														
• Optimal performance up to	1.8km	2.1km	2.1km	2.4km	3.3km	2x2.4km	2x3km	2x2.4km	2x3km	2.1km	2.4km	3.3km	3km	2x1.8km
• Maximum	2.7km	3km	3km	3.3km	3.9km	2x3.3km	2x3.9km	2x3.3km	2x3.9km	3km	3.3km	3.9km	3.9km	2x2.7km
<b>Aluminium Wire 1.6mm and 2.0mm</b>														
• Optimal performance up to	6km	8km	8km	32km	40km	2x16km	2x20km	2x16km	2x20km	8km	10km	40km	40km	2x6km
• Maximum	12km	16km	16km	60km	80km	2x30km	2x40km	2x30km	2x40km	16km	20km	80km	80km	2x12km
<b>Multi energizer systems</b>														
Can be used in multi-energizer network system	No	No	No	No	No	Yes	Yes No	Yes	Yes	No	No	No	No	Yes
<b>Compliance</b>														
IEC 60335-2-76	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cispr 14, EN 61000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Output energy is a function of component tolerance and energy settings, and is reduced during power failure.

YES\* Indicates that this function is available at the cost of another function, further details are on our website [www.nemtek.com](http://www.nemtek.com).

\*\* Solar Panel sizes and Battery capacities are based on the exposure to sunlight in southern Africa and can change depending on the location of the solar panels.

\*\*\* All energizers are manufactured with a 230Vac  $\pm$  10% transformer, 110 Volts are available on request. Batteries are supplied as a standard.

**Specification may change without prior notice.**