DRUID™ 18 LCD (SINGLE ZONE)

The Druid 18 LCD is a powerful version of the Druid 15 LCD, boasting 7.2 output Joules into 500 Ω load. The Druid 18 LCD is the correct choice for large series fence systems.

- LCD display shows information which is quick and easy to read
- The background colours on the LCD display give a quick glance indication of the energizer status without the user having to approach the unit in order to read the display. For example, "green" indicates all is fine, "orange" indicates that attention is required and "red" indicates an alarm condition. The coloured lights are visible from a distance
- The Druid LCD range can accept up to two keypads to remotely control the energizer
- Quick walk test mode on the system offers the installer a quick test facility to walk the fence and test it
- High voltage monitor will sound alarm when the live wires are tampered with
- Earth wire monitor will sound alarm when there is tampering with the earth wires
- Easy-to-use tag switch for controlling the unit if the keypad option is not used
- 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 is built in to reduce the possibility of damage due to power surges
- Internal battery backup system in case of power failure
- Intelligent power saving to extend the battery life and save energy
- Relay outputs, which can be used to control lights. It can also have a timer mode to activate and deactivate these functions

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**
Energizer Dimensions														
	L180 x W205 x D120			L365 x W230 x D140						L180 x W205 x D120		L365 x W230 x D140		
High Voltage Outputs														
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
Energizer Controls and Displays														
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
Gate and Panic Button inputs														
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
Alarm outputs														
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
Power supply and battery backup systems														
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	10 Amp	9 Amp	10 Amp	9 Amp	10 Amp	5 Amp	5 Amp	10 Amp	10 Amp	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
Wire length per energizer (live wires in a series system) for both solid and stranded wires														
Galvanised wires, 1.2mm														
• 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
Galvanised wires, 2.0mm, 2.24mm														
• 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
Stainless Steel 1.0mm, 304 and 316 grade														
• 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
Stainless Steel 1.2mm, 304 and 316 grade														
• 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
Stainless Steel 1.6mm, 304 and 316 grade														
• 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
Stainless Steel 2.0mm, 304 and 316 grade														
• 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
Aluminium Wire 1.6mm and 2.0mm														
• 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
Multi energizer systems														
Can be used in multi-energizer network system	No	No	No	No	No	Yes	Yes No	Yes	Yes	No	No	No	No	Yes
Compliance														
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.

** 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 ± 10% transformer, 110 Volts are available on request. Batteries are supplied as a standard.

Specification may change without prior notice.