

DATA SHEET

DRUID TWO-ZONE ENERGIZER LCD

The NEMTEK DRUID LCD two-zone energizer monitors and controls high-voltage power on an electric fence. The robust and flexible design is ideal for commercial, industrial and high-security sites that need perimeter protection. Multiple DRUID LCD two-zone energizers can be used to form a large system.

Synchronisation between energizers can be achieved by using traditional network cabling or by the Druid synchronisation modules which use orbiting satellites and eliminate the need for cabling between the energizers.



Figure 1: DRUID LCD main PC board

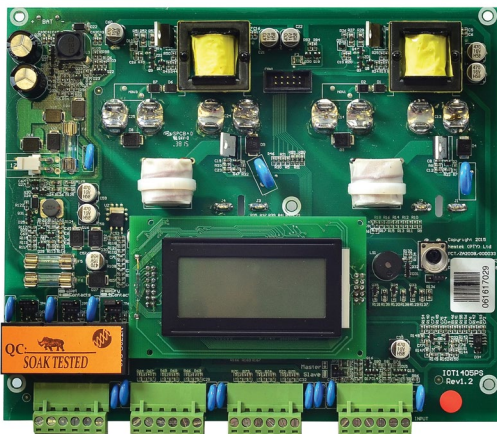


Figure 2: Inside the DRUID LCD



1. Unit mounting holes
2. Battery compartment
3. Battery cover plate
4. Space for Nemtek communication card
5. Druid LCD main PC board
6. High-voltage-connection chamber cover

FEATURES

- Two independently monitored and controlled zones
- High- and low-voltage modes
 - High-power range: 6.0kV-9.7kV
 - Low-power range: 0.9kV-1.9kV
- Full live wire capability (dual pulse)
- Alarm sensor mode
- HLI control capability (large systems)
 - Ethernet
 - RS485
- Adaptive Power Technology (APT)
- Monitors tampering on the high-voltage and earth-fence wires
- Lightning and power-surge protection
- Intelligent battery power saving
- Timed gate-monitor input
- Optional keypad
- LCD display colour changes depending on the fence condition
- Tamper detection switch
- External fence interference detection
- Walk test mode for easy fence testing



SPECIFICATIONS

Model	Druid 25LCD	Druid 28LCD
Physical		
Enclosure size	L400mm x W270mm x D125mm	L400mm x W270mm x D125mm
Weight excluding battery (7AH)	5.7kg	5.7kg
Weight including battery (7AH)	8.0kg	8.0kg
IP rating	IPx4	IPx4
Operating temperatures	-10°C to 50°C	-10°C to 50°C
Operating humidity	< 80% non-condensing	< 80% non-condensing
Electrical supply		
Mains supply voltage	240V	240V
Typical power consumption (normal operating conditions)	18VA	23VA
Internal battery	7AH	7AH
Standby time (fully charged battery)	24hrs	18hrs
High-voltage output		
Energy output 500 Ohms load	2.4 Joule per zone	3.7 Joule per zone
Open circuit voltage	9 000V	9 000V
Connections: Contact ratings maximum		
While relays have a higher rating, the manufacturer does not recommend an AC voltage of more than 50VAC	10A @ 50VAC or 10A at 30DC (per relay)	10A @ 50VAC or 10A at 30DC (per relay)
Wiring lengths guide (live wires in a series circuit) for both solid and stranded Nemtek wires		
Galvanised 1.2mm - 1.6mm	2.5km per zone	4km per zone
Galvanised 2.0mm	3km per zone	4.5km per zone
Stainless steel 1.6mm (304 and 316)	1.5km per zone	1.9km per zone
Stainless steel 2.0mm (304 and 316)	2.3km per zone	3.8km per zone
Aluminium alloy 1.6mm	4km per zone	6km per zone
Aluminium alloy 2.0mm	6km per zone	8km per zone
Aluminium alloy 2.5mm	7km per zone	10km per zone