

Stellar INTELLIGENT SUBSTATION

When choosing an integrated security management system, the related substation seems to be less of a concern than other parts. The functionality of the central software of systems such as iProtect™ often determines the final choice. Yet the substation proves to be a key factor

unacceptable. That is why Stellar guarantees 100% that the buffered transactions will arrive at the central system to be processed. In addition, Stellar can rely on emergency power hardware, so it ensures reliability under all circumstances.

The Stellar can decide whether a person can be admitted without first having to communicate with the central system. The door is opened as soon as the card reader accepts a valid card. Stellar can also independently execute the preprogrammed actions that follow for instance the reception of an alarm signal.



in the continuity and in how flexible and durable the integrated system is. Stellar meets all the demands one can and should make of a modern substation.

Buffering and data processing

Stellar communicates via a LAN/WAN infrastructure with the central system. When for example congestion occurs on the network, it may be necessary to use data buffering. A system that allows transactions to occur unrecorded is

Stellar's long-range functionality

Stellar communicates with the central computer via the TCP/IP Internet protocol. This allows Stellar to be incorporated into any existing network without having to install new cable. Also Stellar is suited for communication via the Internet (VPN). This option enables components that are very far apart to be incorporated within a single system.

Stellar as local intelligence

Stellar can manage all connected peripherals on an independent basis for a number of days. This is not only of great importance in the case of a communications breakdown, but also allows the user to connect Stellar to the hub via an IP-connection to the central system and let it communicate periodically instead of continually.

Stellar's co-ordination with the central system is fully software-based, so that the installation of the substation is cost-effective. Furthermore, a diagnostic function is included in Stellar's firmware, which allows the installation technician to run tests on the entire installation at the local level using a laptop computer. The Stellar substation is maintenance-free and its electronic components have been cased in synthetic resin.

TECHNICAL SPECIFICATIONS

Casing	
Version	Aluminium extrusion profile. Electronic components cased in PUR synthetic resin.
Dimensions (LxWxH)	240 x 120 x 30 mm.
Installation	Click to 35 mm rail (NEN-EN 50022).
Operation	Via Keyprocessor's Protect™ or Athena systems.
Power supply	
Voltage	16,5 - 24 Volt.
Consumption	At 17 Volt: max. 700 mA, including 250 mA for the charge of the battery. At 24 Volt: max. 600 mA, including 250 mA for the charge of the battery.
Emergency power supply	Battery connection (12 V, 2 Ah). Consumption max. 500 mA amx., when main supply is disconnected.
Recommended	Universal Stellar power supply. Do not use this power supply for other equipment at the same time.
Environment	
Temperature	-20 °C to +60 °C in operation.
Humidity	0 - 90 % (non-condensing).
Scanners	
Number	Maximum of 16 readers per Stellar.
Connection	Via Orbit-1 (max. 8 readers). Via Orbit-2 (max. 16 readers).
I/O's	
Number	Max. 96 I/O's per Stellar.
Connection	Via Orbit I/O (max. 12 I/O's per Orbit I/O).
Data exchange	
Orbit	8 Ports for connecting to Orbit, Orbit-2 or Orbit-I/O reader interface: RJ45 socket, Profibus, max. distance 1,200 metres.
Central computer	1 Communications port for connecting to the system hub: RJ45 socket (UTP-ethernet (TCP/IP)).
PC/Laptop	1 Communications port for connecting to the PC or laptop: RJ45 socket (RS232).
LEDs	4 LEDs for data exchange status indication.

