

MDNC-1 - Overview

MDNC-1 - Metal Detector Network Controller

MDNC-1 is a device that allows the CEIA Metal Detectors to be connected on Ethernet networks by means of the TCP/IP protocol. It does not require an external mains supply as it is self-powered by the Metal Detector.

MDNC1- has a software built in that records and transmits the transits coming from the Metal Detector gate as single events, records the status changes and the Metal Detector self-diagnosis. The Ethernet communication over TCP/IP uses the AES-1 encryption algorithm to protect the data on the network

More specifically every passenger transit recorded by the MDNC-1 comprises:

- Metal Detector Name
- Metal Detector Serial Number
- Location
- Direction
- Metal Detector signal amplitude associated with the transit
- Transit time and date

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If the network connection with DeviceLink is lost, the aforementioned events are stored in a FIFO queue in the MDNC-1 persistent memory that is able to contain up to 30,000 records. The events will be afterwards automatically retrieved by the DeviceLink Service when the network connection is restored.

The MDNC-1 device is provided with a real time clock daily synchronized with time and date of the Airport temporal reference server by the Net ID DeviceLink service.

The network communication between the MDNC-1 and the NetID DeviceLink service is protected through encryption compliant with the Advanced Encryption Standard (AES) (FIPS PUB 197).



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