

ATS7123

ISDN dialler with B and D channel including VdS2465 protocol

Communication devices

The advisor MASTER features a true communication centre offering multiple connections (4 Central Stations, each with 2 phone number) and 14 protocols to report alarms and specified events. All Advisor MASTER control panels have a PSTN communicator on board with optional ISDN, ISDN-D, GSM, IP communication modules are available. It is scalable with back-up reporting options according your needs.

Product Overview

The ATS7123 uses the ISDN D-channel for communication with the alarm processing system. This service gives access to the X-25 network.

ISDN - Integrated Services Digital Network

It is a system of digital phone connections which allows data to be transmitted simultaneously across the world using end-to-end digital connectivity.

With ISDN, voice and data are carried by bearer channels (B channels) occupying a bandwidth of 64 kb/s (bits per second). A data channel (D channel) handles signalling at 16 kb/s or 64 kb/s, depending on the service type. There are two basic types of ISDN service: Basic Rate Interface (BRI) and Primary Rate Interface (PRI).

Message Encryption

Messages to the alarm processing system are encrypted. Even messages with the same contents will differ each time during transportation.

X-25 network Services

Reports using X.25 and VdS2645 to alarm receiving stations.

Priority switching

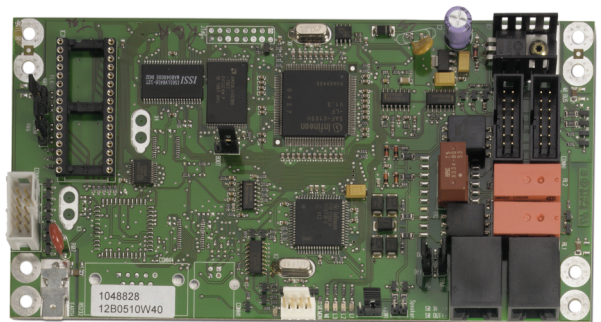
If the ISDN dialler is used in a configuration with other ISDN equipment on the same S0 bus, a fax or telephone could occupy both B-channels when the ISDN dialler needs to transmit an alarm event. Standard ISDN methods will not allow a B-channel to be made available for the ISDN dialler to use.

Consequently, the current state of the active sessions on the local S0 bus are stored in an internal database.

The ISDN dialler “knows” if there are any B-channels available and also keeps a record of the current session parameters, such as TEI, call reference value, and the send and receive sequence numbers.

When both B-channels are occupied, the ISDN dialler sends a disconnect signal on behalf of one of the connected ISDN devices.

The ISDN network will perform further necessary actions. The disconnect signal will be sent for the other device if there is still no connection after five seconds. If there is no B-channel available after another delay of five



Details

- Fully integrated ISDN solution
- Support central station and up/down load communication
- Built in line priority switch
- Point-to-Point and Point-to-MultiPoint operation
- Supports VdS2645 protocol
- ISDN interface complies with CTR3 A1 (EURO-ISDN)
- D-channel operates on ISDN2, X-25 via Digi Access Secure (NL) or D-watch (BE)

seconds, the dialler sends a disconnect signal for both devices. When still no B-channel is available, a timeout will occur. As soon as there is a B-channel available, the dialler will transmit.

After the last timeout, the ISDN dialler physically disconnects the S0 bus from the other terminal equipment by its internal relay and waits one minute for the network to stabilize. It should now be possible to make a call. When the last call has succeeded, the relay switches back to connect all other devices to the S0 bus again.

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Technical specifications

General

Product line	ATS Master
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Network

Communicator type	ISDN
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Reporting

Supported receivers	PSTN receivers
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Electrical

Operating voltage	12 VDC
Power supply value	12 VDC via ribbon cable from control panel
Current consumption	50 to 120 mA 120 mA (normal operation) 180 mA (during priority switching)

Physical

Physical dimensions	175 x 90 x 20mm
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Environmental

Operating temperature	+10°C to +50°C
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Standards & regulation

Compliance	VdS
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