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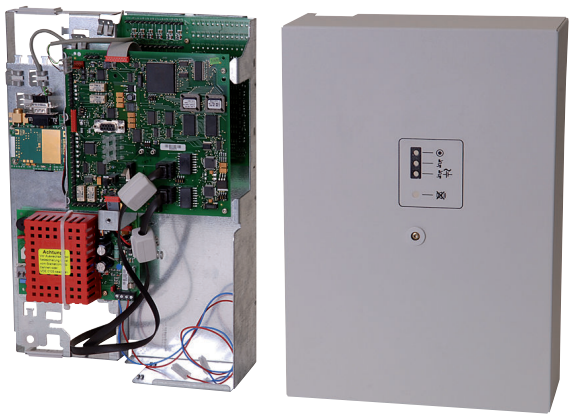
ATE TSN ISDN Alarm Receiver



- **Receipt via ISDN B-channel or GSM network**
- **Receive protocol: VdS2465 (X.75, SMS, V.110)**
- **Installation variant for UGM 2020-EAPS6**

The ATE TSN ISDN is an alarm receiver with alarm reception via the ISDN network and GSM radio network.

Functions

The ATE TSN ISDN is a pre-processing unit for receiving stations, which receives alarm messages via the ISDN and GSM network (SMS or V.110).

It handles the connection of the AT 2000 ISDN and AT 2000 TSN ISDN alarm communicators.

Alarm messages (VdS protocols) are received via the ISDN network on the B-channel or via the GSM module.

Programming of the ATE TSN ISDN is done using AT commands.

Certifications and Approvals

Region	Certification	
Germany	VdS	G 104808 ATE ISDN / TSN / IP
Europe	CE	ATE TSN ISDN

Installation/Configuration Notes

ISDN connection

- The ATE TSN ISDN can only be connected with an "exclusive" multi-system connection (PMP).
- The "constant monitoring" layer 1 feature is also required with a multi-system connection.
- The max. cable length between network termination and TK system or end unit is 150 m.

Antenna planning

- The antenna selection depends on the measured field strength. The antenna and the cable must be selected so that the measured attenuation on the AT 2000 does not exceed -87 dB.
- If the antenna is placed near an automatic fire or intrusion detector, the distance of the antenna to the detector must be at least 1 m.
- We generally recommend the use of a radiator (rod antenna for exterior and interior areas). If the reception level implemented with a radiator is insufficient, beam antennas (planar or exterior antennas for exterior and interior areas) should be used.
- With the installation of antennas outdoors, the relevant DIN VDE provisions, especially DIN VDE 0845 part 1 and VdS 2311 appendix F (protection against lightning) must be adhered to! The ground connection isolator set and the lightning protection set (optional) are designed for this.
- Make measurements precisely where the antenna will be mounted. The measurement results must remain stable for a period of 10 minutes.

Antenna	Gain	Cable attenuation	Comments
Magnet foot antenna	0 dBi (Entire system)		2.6 m fixed cable with FME connector, female
Rod antenna	3.5 dBi (Value without cable)	0.3 dB/m	With 20 m fixed cable, with FME connector, female
Planar antenna	8 dBi	According to cable type	Connection type N-connector
Exterior antenna	10 dBi	According to cable type	Connection type: 7/16 connector

Antenna cable

	Cable attenuation	Cable Ø	Comments
Standard cable	0.3 dB/m	Approx. 5 mm	Low loss cable
Aircom Plus (available separately)	0.15 dB/m	10.8 mm	SOHA

- If necessary, the pre-configured cables must be shortened in order to avoid unnecessary attenuation.
- The Aircom Plus cable must be used if the low-attenuation standard cable achieves no level better than -87 dBm.
- Applications must strictly adhere to the bending radius of at least 55 mm.

Product ID	
4.998.066.838	Aircom Plus cable (SOHA)
4.998.066.839	Expansion module connector for the Aircom Plus cable (SOHA)

ATE installation module

- The ATE TSN ISDN installation module handles installation in the UGM 2020 EAPS6 alarm receipt central station. It serves to connect the alarm communicators AT 2000 ISDN and AT 2000 ISDN.
- For the installation of each installation module in a UGM, an SGK is required.
- Up to four ATE installation modules can be mounted on the ATE mounting kit in the UGM 2020, whereby max. 2 x ATE TSN ISDN or ATE IP ISDN or 4 x ATE ISDN are possible.

Parts Included

Type	Qty.	Component
ATE TSN ISDN Housing version	1	ATE installation module with housing and power supply unit incl. GSM module and RUBIN interface cable
ATE TSN ISDN (installation module) in UGM	1	ATE installation module incl. GSM module, EV-ATE cable, and SGK-ATE connection cable

Technical Specifications

Housing version and installation module	
Current consumption	
• Standby current	Approx. 120 mA
• Transmission mode	Approx. 280 mA
Ambient temperature	-0 °C to +50 °C
Environmental class	II
Protection category	IP 30
Housing	
• Dimensions (H x W x D)	366 x 258 x 188 mm
• Color	Light gray
• Weight	10.0 kg
Power supply	
• Protection class	I
• Mains voltage	230 V (-15% to ±10%)
• Mains frequency	50 Hz (±10%)
• Mains current consumption	200 mA
• Battery (order separately)	12 V/1 x 10 Ah
• Backup time	Max. 72 hours at 330 mA
Radio module	
GSM network	900/1800 MHz

Ordering Information

ATE TSN ISDN, housing version With housing, power supply unit, ATE installation module and GSM module, for receiving alarm and fault messages via the ISDN and GSM network	**4998097822**
ATE TSN ISDN (installation module) in UGM For installation in the UGM 2020-EAPS5/6 alarm receipt central station, for receiving alarm and fault messages via the ISDN and GSM network	**4998097821**
Accessories	
Mounting kit ATE in UGM Up to four ATE installation modules can be mounted on the ATE mounting kit in the UGM 2020, whereby max. 2 x ATE TSN ISDN or ATE IP ISDN or 4 x ATE ISDN are possible.	**4998098656**
Rod antenna with 20 m cable With FME connector, female, incl. mounting bracket for exterior and interior areas	**4998131136**
Planar antenna With N-connector for exterior and interior areas, the connection cable can be ordered separately.	**4998131137**
Magnetic foot antenna with 2.6 m cable With FME connector, female, and coaxial cable pre-configured	**4998131134**

Ordering Information

Antenna cable 20 m, pre-configured for planar antenna with N-plug and FME connector, female	**4998131383**
Exterior antenna With 7/16 connector, the connection cable can be ordered separately	**4998059755**
Antenna cable 20 m, pre-configured for exterior antenna with 7/16 plug and FME connector, female	**4998131688**
Antenna cable 100 m, (low loss) LE = per roll 100 m, low-loss antenna cable	**4998101363**
FME connector, female For antenna cable	**4998097867**
FME connector, male For antenna cable	**4998097868**
7/16 connector, male For antenna cable	**4998097869**
N-connector, male For antenna cable	**4998131687**
Lightning protection set For the AT with connection to an exterior antenna, lightning/voltage surge conductor for coaxial antenna systems of mobile radio systems (e.g. GSM or UMTS)	**4998151211**

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T343403147 | Cur: en-US, V19, 2 Jul 2010 | Src: de-DE, V0, 7 Jul 2008