



BOSCH

Invented for life

UEZ 2000/1 LSN, UEZ 2000 LSN, Intrusion Control Centers



- ▶ Up to 6 UEZ LSNs can be networked with system loop technology (SRT)
- ▶ Fire alarm peripheral elements can be connected in the LSN loop
- ▶ 4 loop or 8 stub lines with UEZ 2000/1 LSN
- ▶ Max. 254 LSN elements with UEZ 2000/1 LSN
- ▶ 8 loop or 16 stub lines with UEZ 2000 LSN
- ▶ Max. 508 LSN elements with UEZ 2000 LSN
- ▶ TeleService capability

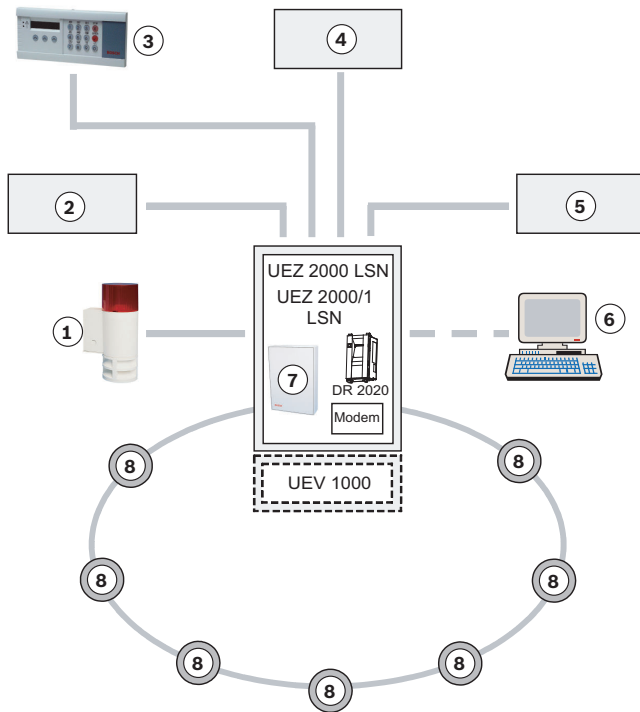
The UEZ LSNs are intrusion control centers designed for monitoring medium-sized properties (monitoring area 6000 to 12,000 m² depending on specification).

The emergency call peripheral elements are connected via the LSN (Local Security Network).

Both systems are equipped with an LVM 100.

- The UEZ 2000/1 LSN **cannot** be extended with an additional LVM 100.
- The UEZ 2000 LSN can be extended with an additional LVM 100.

System Overview



- | | |
|---|------------------------------|
| 1 | External warning devices |
| 2 | ATBL activation panel |
| 3 | IUI-UEZ-BE1000s keypad |
| 4 | Priority Bosch control panel |
| 5 | Transmission unit (ÜE) |
| 6 | Programmable PC |
| 7 | Receiver / communicator |
| 8 | LSN elements |

Functions

A combined operation of fire and emergency call is possible within the framework of the control unit. In addition, a combination of various LSN elements on an LSN line is possible.

False alarm protection is provided by an internal program: Alarm delay and/or dual detector/cross zoning (only with smoke detectors).

Full functionality is maintained on the loop in the event of short-circuit or interruption.

Encrypted data transmission is possible for the priority Bosch control panel or in the SRT loop.

Message processing

In the LVM 100 line processing module, the information from all LSN elements is scanned cyclically, and processed and digitized by the line processors on the LVM. Information prepared in this way is transmitted via interfaces from the line processing units to the ZVM 100 central processing module; at that point it is analyzed and generated as a message, for example to a display/operating panel, recording device, priority Bosch control panel, etc.

Message display and operation

The integrated operating unit (ADT) or a remote operating panel can be used to process incoming messages and operate the system.

Saving messages

A log printer can be integrated to record messages. Up to 1000 events can be stored in an event database.

System loop technology (SRT)

- Up to 6 control panels in one SRT loop (UEZ 2000 and/or UEZ 2000)
- Central or decentralized assignment as required
- Cost-effective networking using standard cabling (4-wire) up to 1000 m
- Greater coverage via modem or fiber optic cable
- High level of operating reliability through fault-tolerant operation in the event of a line short-circuit or interruption
- Malfunction message reported to all systems to aid in malfunction localization
- One or more transmitters can be integrated into the cluster as required
- All information is available at each control panel
- Complete simultaneous operation is possible and permitted on all control panels
- Up to 508 detector zones
- Up to 2032 LSN elements
- Built-in operating panel and printer (optional) per control panel
- Up to 4 remote BE 1000 operating panels per control panel
- Encrypted data transmission in the SRT loop
- Up to 48 LSN loops or 96 stubs or a combination of both with the **UEZ 2000 LSN SRT**

Additional function with the UEZ 2000 LSN

The UEZ 2000 LSN can also be equipped with an additional LVM 100. This increases the connection potential to 8 loop or 16 stub lines and/or a max. of 508 connectable LSN elements.

Certifications and Approvals

Region	Certification
Germany	VdS-S
	S 184507, B NMZ 300 H
	S 196602, B NMZ 1000 B
	S 196001, C NMZ 1000 C
VdS	S 17370, C NMZ 300
	G 197009, C UEZ 2000 N
Europe	CE
	UEZ 2000 LSN UEZ 2000 LSN A2

Installation/Configuration Notes

- One-man test
- Automatic service request in the event of detector contamination
- 127 detector zones
- 99 detectors per detector zone (not VdS)
- 32 detector area
- 5 fixed and 19 variable control panel C points

Internal and external expansion options

Components	Number	Short description
Internal extension		
SEMO1	1	Module with 2 serial interfaces and SEZU (encrypted data transmission)
AT 2000	1	Dial-up modem for transmitting information via the telephone network to a monitoring station and/or TeleService
DIP	1	Switching an internal program on or off from multiple independent points
NRK-N	2	For 230 V switching outputs; C point activation
TRSP	1	Integration of up to 5 x TRN
SIV	1	For additional monitored protection of users connected to the UEZ 2000 LSN
LSA+	1	Additional connection strip
ASE	1	For connecting 2 x 2 BES in parallel, can be plugged into AVM 100
TRN	6	For zero-potential outputs of control panel functions; can be plugged into AVM 100
RTP	6	For zero-potential outputs of 4 control panel functions each; can be plugged into AVM 100
SM 20	5	Interface module for 20 mA interface; for connecting a printer, UGM 2020, RUBIN 2020NT or BoVis NT
SM24	3	Interface module for V.24 interface; for connecting UGM 2020, RUBIN 2020NT, Bovis NT or SRT
SM 485	1	Interface module for RS-485 interface, for connecting 4 x BE 1000
Printer	1	Message logging

Components	Number	Short description
ATE 100 LSN	1	Parallel display of 32 detector zones (can be installed in operating panel)
Key switch	8 or 1 and 6	With 2 activation settings With 3 switch setting options (1-0-2) in the operating panel With 2 switch settings
12 V/10 Ah battery	2	Uninterrupted power supply (UPS) to the system
External extension		
External signaling device	8	Up to 8 independently activated BESs can be connected via ASE and NSB 100
ATBL	8	For connecting remote display panels, each with 64 outputs
Transmission equipment (VdS)	1	For transmitting emergency call alarms to a receiving center
SD	1	Connection is made at the AVM 100
UEV 1000	1	For additional energy requirements; contains one 12 V/5.4 A power supply unit and 2 12 V/40 Ah batteries

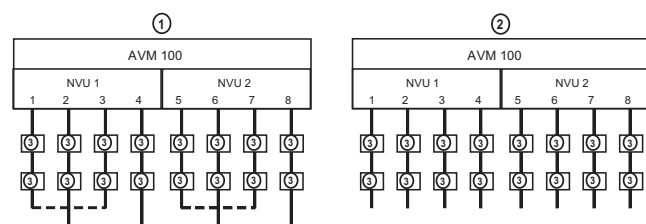
SRT system parameters

Signaling devices	32 per system, max. 99 in the cluster
Transmission equipment	48 in the cluster
Auto dialer	1 per system
Printer	1 per system
Timer channels	9 per system
BE 1000 operating unit	4 per system
Priority control panel	2 per system
Alarm counter	2 per system
Event database	1 per system
Internal programs	14 in cluster
User ID	Up to 255 in cluster
Monitoring texts	Up to 20 in cluster
Alarm texts	Up to 40 in cluster
System short texts	Up to 300 in cluster
Detector short texts (location)	2032 in cluster
Hold-up camera	6 per system
Partitions	32 in cluster

Creating loop and stub lines

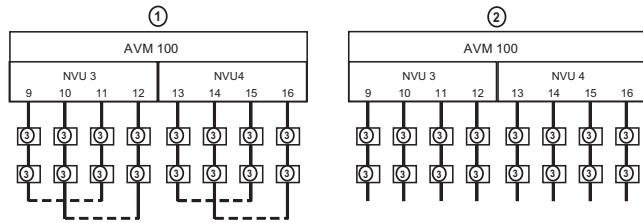
Basic version with 1 x LVM 100

(4 loops or 8 stubs or any preferred combination of the two)



Extension with second LVM 100 (only with UEZ 2000 LSN)

(Additional 4 loops or 8 stubs or any preferred combination of the two)



- 1 Loop connection
- 2 Stub connection
- 3 LSN elements

NVU parameters: 2 loops or 4 stubs, up to 1000 m in cable length, up to 100 mA current consumption, up to 127 LSN elements

Quantity structure for the SRT system cluster with UEZ 2000 LSN

Maximum number of detectors

Number of systems	1	2	3	4	5	6
	508	1016	1524	2032	2032	2032

Maximum number of detector zones

Number of systems	1	2	3	4	5	6
	127	256	381	508	508	508

Module quantity structure in UEZ 2000 LSN emergency call SRT

Loops	Quantity structure				
	UEZ 2000	LVM 100	SEMO	SM20*	SM24*
4	1				
8	1	1			
12	2	1	2	4	4
16	2	2	2	4	4
20	3	2	3	6	6
24	3	3	3	6	6
28	4	3	4	8	8
32	4	4	4	8	8
36	5	4	5	10	10
40	5	5	5	10	10
44	6	5	6	12	12
48	6	6	6	12	12

Quantity structure

* Either a modem or a fiber optics converter is required in addition to the SM 24

Note The limit values for each NVU or LVM 100 must be observed.

Note For mixed configurations, the number of SM20 and SM24 modules required changes (increases or decreases).

Parts Included

Qty.	UEZ 2000/1 LSN	UEZ 2000 LSN
1	AVM 010 Connection of the lines and internal connection board of ZVM 100, LVM 100, SEMO1, ASE, RTP, TRN, SM 20 and SM 485 modules	AVM 100 Connection board for connecting all detector and peripheral elements and internally linking the ZVM 100, LVM 100, SEMO1, ASE; RTP or TRN, SM 20 or SM 485 modules
	Housing cover Metal, secured with a lock and a tamper contact including document bag	
	Wall frame Metal, basic version	
	ZVM 100 Analysis of the LVM 100 and SEMO1 modules, processing of the operating panel, surveillance and control of the peripherals	
	LVM 100 Line processor for connecting 4 loop or 8 stub lines	
	ADT Display keyboard with 8-line graphic display	
	Key switch With 3 programmable switch settings (1-0-2)	
	Power supply unit 12 V/5.4 A	

Technical Specifications

Housing	
• Dimensions (H x W x D)	• 763 x 523 x 300.5 mm
• Color	Light gray
• Color of front parts	NCS1502 R (pale gray)
• Weight incl. power pack without battery	23 kg
Environmental conditions	
• Operating temperature	-5 °C to +45 °C
• Storage temperature	-20 °C to +60 °C
• Housing protection type	IP 40

Power supply	
• Power supply unit	12 V/5.4 A
• Line voltage	230 V/50 Hz
• Operating voltage	11 V to 15 V
• Battery capacity	2 x 38 Ah
• Backup time	Max. 60 hours
• Current consumption	To calculate the power requirement, please use the applicable version of UEZ Pro
2-4 loop version (2000 m cable length)	1.1 A
4-8 loop version (4000 m cable length)	1.85 A
Transmission equipment	
Principle	Zero-potential contact with standby state ON
External signaling devices	
• Principle	Pole reversal
• Line voltage	Approx. 2.8 V to 3.6 V
• Control voltage	12/24 V
• Terminal resistance	12.1 kOhm
• Activation Acoustics/optics	1 - 180 s/continuous
System interfaces	
Serial signaling interface	
• V.24 range	Max. 25 m
• Range 20 mA interface	Max. 1000 m
• Modem range	20 km with attenuation < 20 dB
Interface for remote operating panels	
RS-485 interface	
• Range	Max. 500 m
LSN technology	
• Line voltage	Approx. 30 V
• Line current per NVU	Max. 100 mA
• Subscribers per NVU	Up to 127 (depending on current consumption)
• Loop network with 2 LVMS	Max. of 8 loops or 16 stubs up to 4000 m

Ordering Information

UEZ 2000/1 LSN Intrusion Control Center	4998116570
For monitoring medium-sized properties, high security through LSN technology features with LVM 100 for connecting 4 loop or 8 stub lines	
UEZ 2000 LSN Intrusion Control Center	3002120270
For monitoring medium-sized properties, high security through LSN technology features with LVM 100 for connecting 4 loop or 8 stub lines, can be extended by an additional LVM 100 for connecting a further 4 loop or 8 stub lines	
Accessories	
LVM 100 Line Extension	3902120280
For extending the UEZ 2000 LSN for connecting an additional 4 loops or 8 stub lines	
SEMO1 interface card	3902140059
For two serial interfaces (each interface requires an SM 20 or SM 24)	
Code EPROM for SEMO1	3002185970
For use of SEMO1 interfaces outside VS zone	
SM 485 Interface plug module	3902120284
For RS-485 interface, for connecting 4 x IUI-UEZ-BE1000s	
SM 20 Interface Module	SM 20
For connecting DR 500 T/AV, BE 500, UGM 2020 or RUBIN	
SM 24 Interface Module	SM 24
For networking the central unit in the SRT cluster, for connecting peripheral devices or a modem	
TD-32DC telemodem	4998062050
For networking the control panel in the SRT cluster using dedicated line modem.	
IUI-UEZ-BE1000s Remote Keypad	IUI-UEZ-BE1000s
For displaying and executing operating states and functions of the UEZ 2000 LSN.	
UEV 1000 universal power supply	3002100430
For additional power supply to LSN control panels, housing incl. 12 V/5.4 A power supply unit, up to 2 12 V/40 Ah batteries can be used	
UZG 1000 universal additional housing	3002100432
For accommodating power supply unit, power distributor, expansion modules etc.	
Kit TN lock	3902100447
For resetting the locking screw on the cylinder lock for UEV 1000 and UZG 1000	
Sub plate for options	3902102319
For installing LSN expansion modules etc. for UEV 1000 and UZG 1000	
12 V/5.4 A power supply unit	3902100435
For installing in the UZG 1000 universal additional housing or can be deployed universally; 24/28/35 V converter card can be plugged in	

Ordering Information

24/28/35 V converter card For installing in the 12 V/5.4 A power supply unit or in conjunction with the UEV 1000 universal power supply, 12 V to 24/28/35 V	3902100445
Sub plate with surface security With dimensions 540 x 1030 mm	2799380632
Enclosure for UEZ With dimensions 1200 x 800 x 400 mm (incl. base H = 100 mm)	2799381000
AT mounting kit in UEZ 2000/BZ 500 For installation of an AT 2000 installation module in UEZ 2000 LSN or BZ 500 LSN	3902130725
DIP module For dynamic switching of the internal program	3002104150
NRK-N network relay card With two relays for zero-potential outputs (one 230 V~ operating contact per relay).	3902102320
SIV Fuse Distributor For monitored fusing of the devices connected to the UEZ 2000, up to 5 fuses	3902102156
SIV fuse distributor For monitored fusing of the devices connected to the UEZ 2000, up to 5 fuses.	3902102156
LSA-PLUS connection strip, 20 DA For lead distribution of up to 20 twin wires	2778160201
ASE for monitored activation of external warning devices With 2 primary lines (PL) for monitored activation of external signaling devices 12 V/24 V, up to 2 signaling devices per PL, can be plugged into AVM, 2 external signaling devices can be activated independently.	3902102170
TRSP panel relay plug-in module For installing and free switching of up to five TRN panel relay modules	3902107247
TRN panel relay module With 2 relays, one switching contact per relay, for zero-potential outputs, up to 6 TRNs can be plugged into AVM 100	ICP-TRN
RTP Panel Relay Module four relays, each relay with a double-throw contact for potential-free outputs	RTP
DR 2020 T/AV Report Printer with Roll-Up Equipment For installation in the display unit, the printer can only be installed at the factory; retrofit installation on site not possible	DR 2020 T/AV

Ordering Information

DR 2020 T Report Printer without Roll-Up Equipment For installation in the display unit, the printer can only be installed at the factory; retrofit installation on site not possible	DR 2020 T
TRN panel relay module With 2 relays for zero potential outputs, one switching contact per relay. Up to 6 units can be connected to AVM 100.	ICP-TRN
RTP panel relay module With 4 relays for zero potential outputs, one switching contact per relay. Up to 6 units on AVM.	3902102154
SM 20 interface module Module for 20 mA interface; for connecting a printer, UGM 2020, Rubin 2020 NT or BoVis NT.	3902120283
SM 24 interface module Module for V24 interface. For networking the central unit in the SRT cluster in conjunction with fiber optic cable or modem.	3902102660
DR 2020 T/AV report printer with roll-up equipment For installation in the display unit.	4998105681
DR 2020 T/ report printer without roll-up equipment For installation in the display unit.	4998105678
Printer paper (thermal paper) Packet with 5 rolls for log printer DR 2020 T/AV and DR 2020 T	4998110290
Additional key switch Can be installed in the UEZ operating panel; 3 switch settings; free allocation for activation of control panel functions, e.g. for camera deactivation.	3902102350
ATBL-EA panel control For connecting up to eight remote display panels, with 64 zero-potential transistor outputs per ATBL, ready for connection of one RTBL relay	3902107312
RTBL relay 2 relays, each with 1 switching contact, optional for ATBL-EA	3902197206
FUEM 2 energy supply filters Required for ATBL-EA	3902181487

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