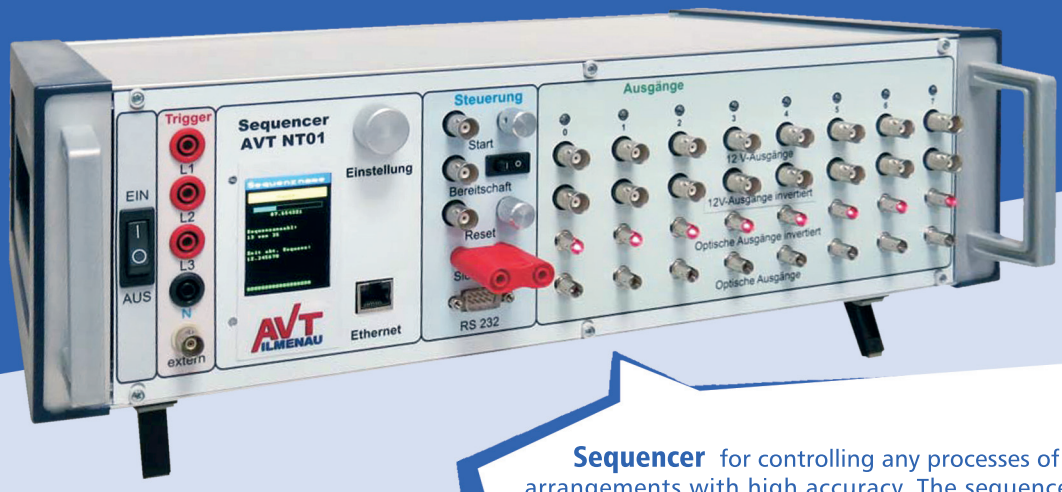
SEQUENCER
AVT NT01

for EMC test measurement and for triggering of high-voltage processes

AVT ILMENAU

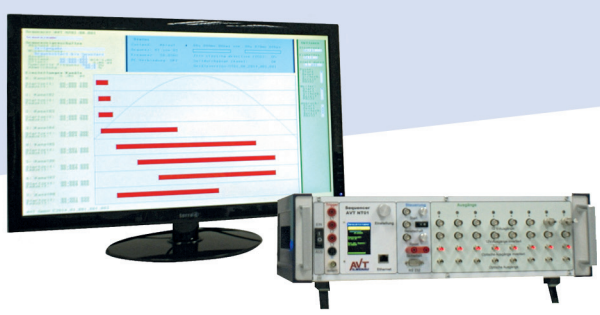
www.avt-ilmenau.de



Sequencer for controlling any processes of testing arrangements with high accuracy. The sequencer is especially suitable for the EMC measuring and testing technology. The simple installation and commissioning are excellent properties of the device.

Your advantages:

- Controlling of highly accurate processes by using **FPGA-Technik** (**1 µs exactly**, optional precisely)
- Output of **8 (up to 72)** high-precision independent programmable **trigger channels**
- Good compatibility with devices by **optical** (galvanic isolation) **and electrical** 12 V outputs
- Channel output as a **trigger signal and invert trigger signal** (for optical and electrical)
- **Synchronization** of the trigger signals with a reference (mains voltage) or an external signal (galvanic isolated)
- Internal **Zero Crossing Detector** (ZCD), for maximum accuracy in the synchronization of trigger signals with the mains voltage (≤ 1° electrical)
- Switch for **Start, Reset, Standby and safety circuit** on the device or externally (BNC sockets)
- Simple, flexible and comfortable operation with **encoder switch and graphic display**
- Connecting an **external HD display** for adjusting and monitoring of all parameters
- Device can be used **autonomously** (PC with software only optionally required)
- **Possiblility** of controlling **by using PC software** via ETHERNET or / and RS232
- **Low installation costs,** no software maintenance necessary (only by using optional PC)
- **Save and restore** of parameters and settings directly in the Sequencer
- **19" rack installation** or **stand alone device**
- Adjustable **repetitions** of sequences
- Free **programming** of trigger programs
- Devices can be **cascaded**



Technical specifications

Device	NT01-08	NT01-16	NT01-64	NT01-71
Outputs				
independently adjustable trigger channels	8	16	64	72
optical (F-ST)	8	16	64 (HFBR)	64+8
optical inverted (F-ST)	8	16	---	8
12 V-electric (BNC)	8	16	---	8
12 V-electric inverted (BNC)	8	16	---	8
VGA	Sub-D 15 pin, on rear panel of device			
Inputs				
synchronization voltage	Connectors 1, 2, 3 and N (banana jack 4 mm)			
external trigger	BNC-socket (full isolated)			
BNC-socket for	start, standby and reset			
safty circult	banana jack 4 mm			
power supply	ICE connector U_{nom} = 230 V AC			
serial RS232 for optional PC connection	x			
ethernet RJ45 for optional PC connection	x			
Control switches				
on /off switch (0 W) to rear panel of device	x			
on /off switch (4 W) at the front side	x			
encoder switch for settings	x			
encoder switch	start and reset			
switch	standby			
Functions				
triggering by	1-phase or 3-phase synchronization voltage on connector 1, external, interal (start manually)			
start delay	0…9,999 s oder 0… 360°			
puls duration	1 µs…9,999 s oder 1°… 360			
sequence repetition time	1 ms…10 minutes or each full wave /half wave			
zero crossing detektor	x			
synchronizations frequency	16 Hz… 999 Hz			
communication to optional PC	Ethernet or RS232 (software separately)			
settings/ status	Graphic display / LED for each channel			
flash memory	save and restore of settings and sequences			
small display on the device	49 x 37 mm² / 320 x 240 RGB			
display output	1920 x 1080 @ 60 Hz			
General				
dower consumption in W	10			
dnergy supply	85-264 VAC, 120-370 VDC			
decurity	1 AT accessible from the outside			
dimensions in mm				
widht (total / device body) / depth	482,4 / 422,4 (19" rack mounting)		/ 150,0 (without handles)	
height	128,4	256,8	128,4	128,4
wight in kg	2,28			
temperature	Operating temperature: 0-40°C, Storage: -25 to +70°C			
humidity	0 to 80% non-condensing			

Options:

- accurate resolution of 50 ns
- larger time duration of individual sequences to 0... 10 min
- larger time duration of sequence repeats 1 ms... 1 h / 10 h
- working with internal accumulator

Ordering informations:

NT01-08-001	8-channel-version with optical and electrical 12 V outputs (inverted /non inverted)
NT01-16-001	16-channel-version with optical and electrical 12 V outputs (inverted/non inverted)
NT01-64-001	64-channel-version only optical outputs (Sockets HFBR-0501 series)
NT01-SW-001	control software for PC connection

Erros and alterations excepted.

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