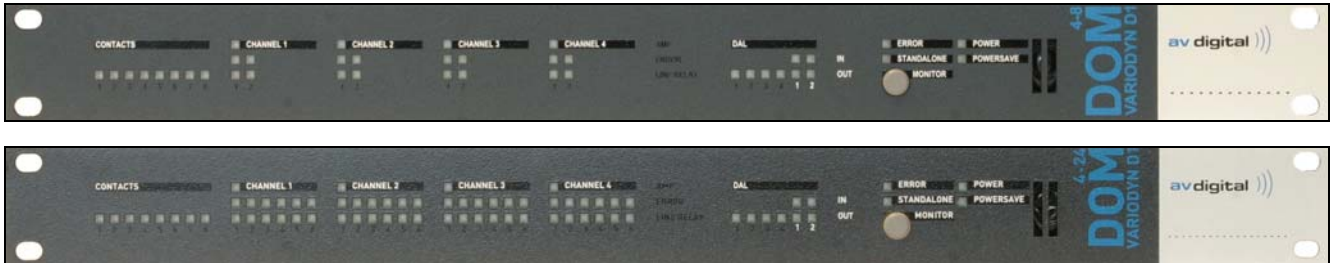


VARIODYN® D1 Digitale Output Module

DOM4-8, DOM4-24

AVD-G11-A361, -A362

Product sheet



Application

The DOM is the central control unit of the VARIODYN® D1 amplifier system. It provides interfaces to all input/output modules and controls and supervises the 100V circuits.

One single DOM already constitutes a complete sound system. By networking of several DOMs via Ethernet, an arbitrarily complex System can be realized.

The modules DOM4-8 and DOM4-24 have both four independent audio outputs controlling four 100V amplifier channels. Each audio output of the DOM4-8 can drive two 100V loudspeaker lines (i.e. totally 8 lines). Each audio output of the DOM4-24 can drive six 100V lines (i.e. totally 24 lines).

All power amplifiers are permanently supervised. In case of an error a so-called backup amplifier can replace a defective power amplifier unit.

Used loudspeaker lines get permanently supervised for short circuits, ground leakage, or circuit interruption. Faulty lines are disconnected without rebound.

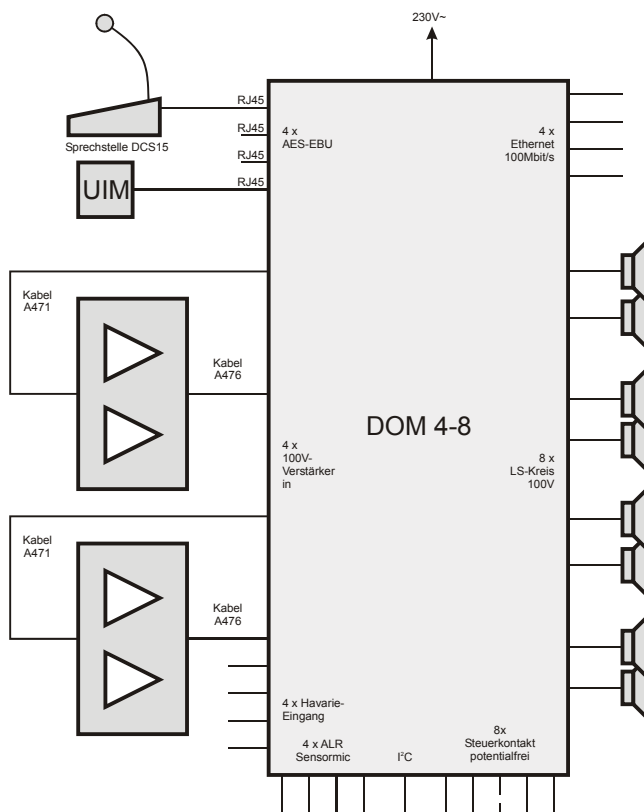
As an option, supervision of single loudspeakers is available (requires additional hardware).

The built-in automatic volume control (AVC) feature permits permanent automatic volume adaptation of broadcasted sound to environmental sound levels for each of the four audio channels in real-time.

A DOM 4-x unit provides 80 seconds of memory intended for storing audio signals like alarm text messages, alarm signals, and "all-clear" signals.

A 1-band parametric equalizer can be enabled for each audio channel. More filters such as highly configurable multi-band parametric equalizers, hi-cut and lo-cut filters, shifters, and even more advanced signal processing functions such as compressors, peak limiters, delays, etc. are available as a software option (D1 Audio Signal Processing License).

All errors are recognized, displayed and logged within seconds.



Example: One Module DOM 4-8 in connection with a call station, two dual channel power amplifiers, eight loudspeaker lines, and one further VARIODYN® D1 module UIM (symbolized).

Connectors

- Four digital audio links (DAL)
- Four Ethernet connectors 100Mbit/s with switch function
- Four inputs for AVC sensor microphones
- Two combined LF-/remote outputs for power amplifiers
- Four 100V Inputs
- Four 100V Backup Inputs
- 100V Lines
 - DOM4-8: 4 channels, each with 2 line relays
 - DOM4-24: 4 channels, each with 6 line relays
- Eight potential-free control contacts
- One I²C bus
- Mains connection.

Indications

- POWER LED, ERROR LED, STANDALONE LED, POWERSAVE LED
- Eight CONTACT LEDs
- Four power amplifier indicators AMP
- Line relays indicators LINE RELAY
 - DOM4-8: 8 LEDs
 - DOM4-24: 24 LEDs
- Line fault indicators ERROR
 - DOM4-8: 8 LEDs
 - DOM4-24: 24 LEDs
- Four DAL actual state LEDs
- Four DAL channel LEDs.

Operating elements

- 1 key for sequential monitoring of local audio channels
- 1 monitoring loudspeaker.

Technical Data

Audio output:

Output type	electronically balanced
Nominal level	0 dBu
Max. Output level	+6 dBu
Transmission range	20Hz ... 20kHz
Max. Deviation from linear transmission	±3 dB in transmission range
THD at nominal level	< 0,01% at 1kHz
Max. THD	0,5% in transmission range
Signal to Noise Ratio at nominal level	>90 dB A-weighted
	>85 dB unweighted
Load impedance	min. 5 kOhm, max. 500 pF

Sensor input (ALR):

Input type	ballanced earth free
Nominal level	-51 dBu
Nominal level for emergency call station	0 dBu
Transmission range	100Hz ... 8kHz
Max. Deviation from linear transmission	±3 dB in the transmission range
THD at nominal level	< 0,2% at 1kHz
Max. THD	1% im Übertragungsbereich
Signal to Noise Ratio at nominal level	>65 dB A-weighted
	>60 dB unweighted
Input impedance	typ. 200 Ohm

Auxiliary contacts:

Max. voltage	100V DC (effective)
Max. current	1A continuous current
Peak voltage resistance	min. 2,5kV

Switching contacts:

Max. voltage	250V AC, 30V DC
Max. current	5A continuous current
Peak voltage resistance	min. 1,5kV

Mains:

Voltage range	90 VAC to 264 VAC
Frequency range	47 Hz to 440 Hz
Current	typ. 0,5A at 230V AC

Ambient temperature range	-5°C to +55°C
Relative humidity	15% to 90%

Dimensions (HxWxD)	1HU, 19" 345mm
Weight	approx. 3kg

Order Data

	Order number
Digital Output-Module DOM4-8	AVD-G11-A361
Digital Output-Module DOM4-24	AVD-G11-A362
Mounting set 1	AVD-G11-A703

Accessories:

Power Amplifier 2x200W	AVD-G11-A222
Power Amplifier 2x300W	AVD-G11-A223
Power Amplifier 2x500W	AVD-G11-A225

Replacement Cable RC22	AVD-G11-A422
100V cable 8 lines	AVD-G11-A451
100V cable 6 lines	AVD-G11-A452
Cable DOM-Amplifier	AVD-G11-A471
Cable Amplifier-DOM	AVD-G11-A476

Software-Licenses:

D1 Single Speaker Survey License	AVD-G11-A617
D1 Backup SCU License	AVD-G11-A622
D1 Networking to VARIODYN® 3000 License	AVD-G11-A630
D1 Audio Data Stream License	AVD-G11-A631
D1 Software Control License	AVD-G11-A632
D1 Pre recorded Audio License	AVD-G11-A641
D1 IEC60849 Compliance License	AVD-G11-A649
D1 Automatic Volume Control License	AVD-G11-A650
D1 Audio Signal Processing License	AVD-G11-A666
D1 Standard PAMMI License	AVD-G11-A680
D1 Monitoring License	AVD-G11-A698