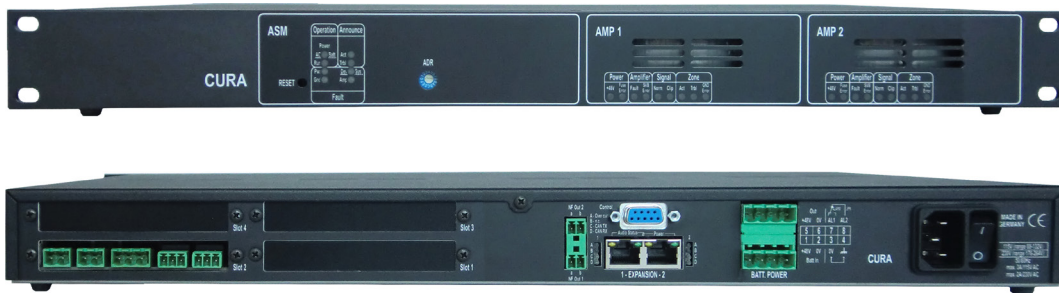


PA Systems | Product family CuraG2

## CURAG2



IP PA System with integrated amplifiers - Expansion Unit

### CURAG2 EXPANSION UNIT

The Cura expansion unit with two 100 W amplifiers complements the Cura system to one more PA output line. An existing CURA base unit can be expanded with up to 7 Cura expansion units. On the basis of this modularity, the Cura system can be set up with up to 16 x 100 W amplifiers (2 x 100 W amplifiers in each Cura unit). The Cura expansion unit allows customizing the Cura system for different sizes of stations and number of loudspeaker circuits. The available interfaces ports in a Cura unit can be supplemented by optional expansion modules. The Cura system integrates smoothly into our customer's environment.

### FUNCTIONAL FEATURES

- » Full digital signal processing
- » 2 x 100 W output power per device at 100 V, electrically isolated with insulation monitoring
- » Audio output
- » Audio functions: delay, compressor, automatic level adjustment, optional: equalizer
- » Monitoring of announcements on 100 V out-puts via signal comparison
- » Impedance monitoring for speaker lines to detect short circuits, disconnection and defective loudspeakers

## FUNCTIONAL FEATURES

- » Configurable types of redundancy for output amplifiers (mutual take-over, N+1)
- » Power supply with 230 VAC and/or +48 VDC
- » High availability, maintenance-free
- » Qualified for railway application
- » Optional use in voice alarm systems according to EN 54-16 with interface to fireman's microphone

## TECHNICAL DESCRIPTION

### GENERAL PROPERTIES

Range of application	Extension unit with 2 x 100W amplifiers for the Cura public address system
Power Supply	200 - 260 V AC / 100 - 130 V AC (selectable), 47 - 63 Hz and/or 46 - 53 V DC
Protection class	Protection class I according to DIN EN 61140
Power consumption	max. 260 W standby: ca. 25 W
Dimension (LxWxH)	483 x 320 x 44 mm 19 inches, 1 U
Weight	approx. 7 kg
Installation instructions	Installation in racks with 19 inches standard profile
Cable feed	Generally from back side
Degree of protection	IP20
Temperature range	Operation: -5 °C ... +55 °C
Cooling	passiv, fanless
Front side display elements (LED light detector)	<ul style="list-style-type: none"> <li>» voltage supply AC/DC</li> <li>» operation</li> <li>» voice alarm condition</li> <li>» failures (intern and extern malfunctions, power supply malfunction, amplifier/ loud speaker malfunctions)</li> </ul>

## TECHNICAL DESCRIPTION

### GENERAL PROPERTIES

Front side operating elements	address switch
	3 module slots
Extension slots (optionally extendable with)	<ul style="list-style-type: none"> <li>» audio-In module, 4 analog inputs</li> <li>» audio-Out module, 4 analog outputs</li> <li>» module with 8 digital inputs and 8 digital outputs</li> </ul>
Compliance	CE, RoHS, electrical safety and EMC EN 50121-4 (railway application) option: EN 54-16 (voice alarm system)

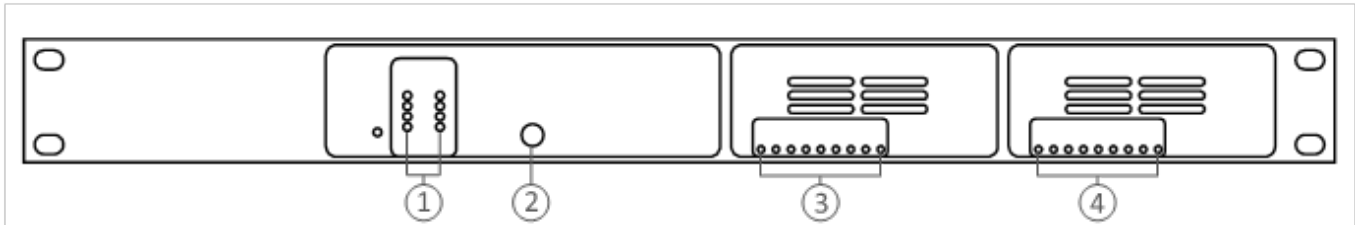
### INTERFACES

AF output	2x audio output (onboard): <ul style="list-style-type: none"> <li>» electrically symmetrical</li> <li>» output level: 0 dBu</li> </ul>
Fault message contact	see digital outputs

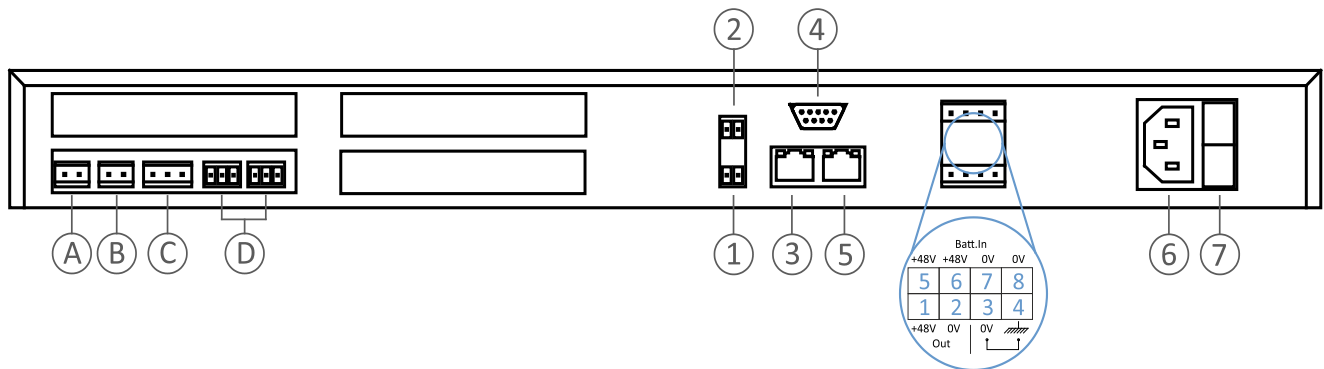
### AMPLIFIER

Amount, class	2, Class D
Output power	100 W at 100 V
Distortion factor	< 1 % at nominal capacity
Galvanic isolation	yes
Front side display elements	Voltage supply, defect on speaker line, short to ground, amplifier overload, amplifier error, input level, channel assignment

## TECHNICAL DESCRIPTION



- 1 General status display
- 2 Address selector
- 3 Status display for amplifier 1
- 4 Status display for amplifier 2



- A Slot 2 (X1) 100 V output amplifier 1
- B Slot 2 (X2) 100 V output amplifier 2
- C Slot 2 (X3) reserve amplifier input
- D Slot 2 (X4-X5)
- 1 AF Out 1
- 2 AF Out 2
- 3 Audio bus In
- 4 reserved
- 2 Audio bus Out
- 6 230 V AC voltage
- 7 Power switch
- 1/2 DC power supply +48 V DC
- 3/4 Potential equalization, ground connection
- 5/6 DC voltage output +48 V DC, max. 200 mA

### ORDER NO.

042.41001-0012 CuraG2 Expansion unit with 2x100W amplifier (Type Cura31C)

Extensions module:

- 42.41002-0011 Cura – 4AudioIn 4x Audio-In module
- 42.41002-0012 Cura – 4AudioOut 4x Audio-Out module
- 42.41002-0013 Cura – 8/8GPIO module with 8 digital inputs and outputs