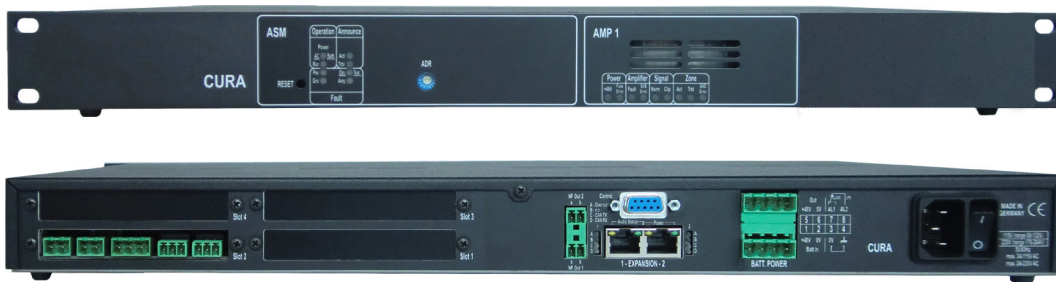


PA Systems | Product family CuraG2

CURAG2



IP PA System with integrated amplifiers - Expansion Unit

CURAG2 EXPANSION UNIT

The Cura expansion unit with one 500 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 8 x 500 W amplifiers (1 x 500 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
- » 1 x 500 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 loud speakers

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	The expansion unit with one 500 W amplifiers to Cura IP PA System with integrated announcement device
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. 560 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	passive, fanless
Front side display elements (LED light detector)	<ul style="list-style-type: none"> » voltage supply AC/DC » operation » voice alarm condition » failures (intern and extern malfunctions, power supply malfunction, amplifier/ loud speaker malfunctions)

TECHNICAL DESCRIPTION

GENERAL PROPERTIES

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

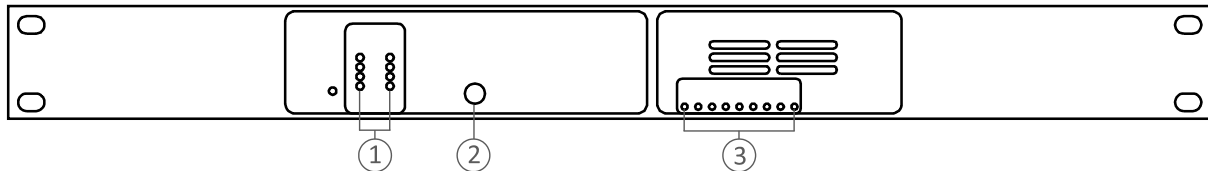
INTERFACES

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

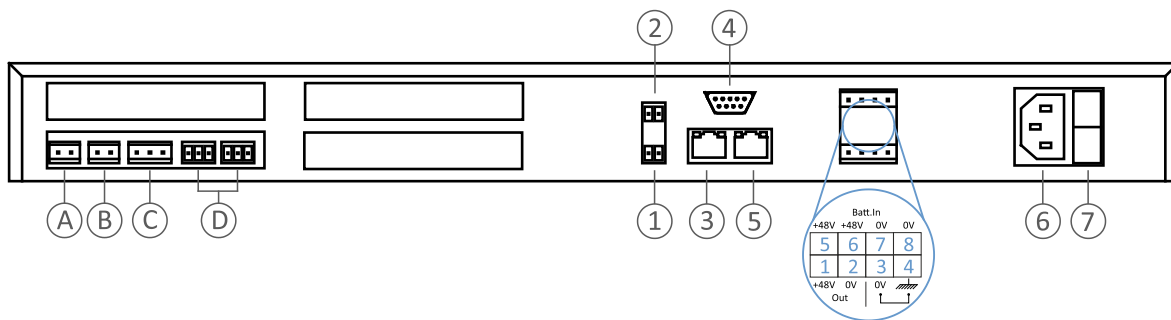
AMPLIFIER

Amount, class	2, Class D
Output power	500 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



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

ORDER NO.

042.41001-0014 CuraG2 Expansion unit with 1x500W amplifier (Type Cura33C)

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