

Utfärdare/Issued by Kjell Knuutinen	Datum/Date 1999-10-12	Godkänd/Approved	Dok nr/Doc no ALR4200/001-201	Rev A	Sida/Page
Dok namn/Doc name <b>PRELIMINARY PRODUCT SPECIFICATION</b>			Fil/file ALR4200-001_B1		

## COMPACT repeater with adjustable bandwidth 800 MHz version

### 1. Electrical specification

			Remark
Frequency tuning band Up link	824 – 849	MHz	
Frequency tuning band Down link	869 – 894	MHz	
Filter bandwidth standard, adjustable	0.2 – 15	MHz	
Filter setting resolution	12.5	kHz	
Duplex spacing	45	MHz	
Gain adjustment range	45-70	dB	
Gain step resolution	1	dB	
Out of band gain @ 400 KHz off-set	45	dB	
Out of band gain @ 600 KHz off-set	40	dB	
Out of band gain @ 1 MHz off-set	35	dB	
Out of band gain @ 5 MHz off-set	25	dB	
Output power, PEP	Min + 28	dBm	TBD
3 <sup>rd</sup> order intercept point	Min + 49	dBm	TBD
Max absolute group delay	6	µs	
Noise figure at 65 dB gain, 25° C	5	dB	
Maximum input power	+13	dBm	
Receiver input port return loss	14	dB	
RF-connectors	N-type female		
Power supply voltage	85 - 265	VAC	
Power consumption	< 70	W	

### Output power reference table (dBm)

No Carrier	AMPS	CDMA
1	+28	+25
2	+23	+20
4	+19	+16

# ALLGON SYSTEM AB



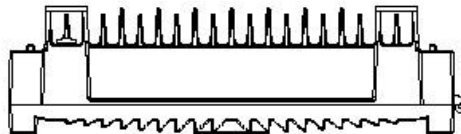
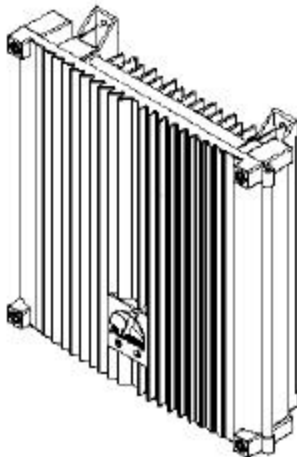
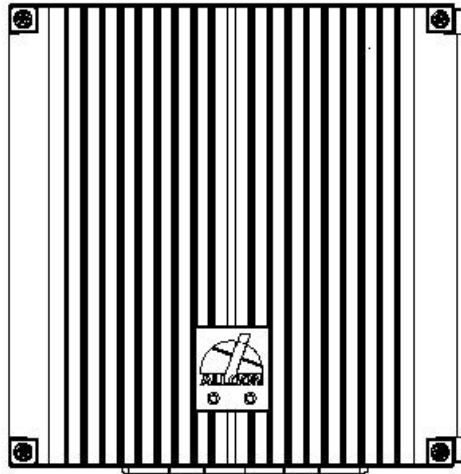
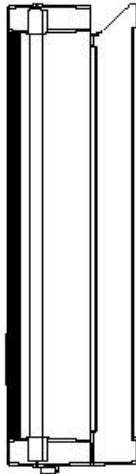
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## 2. Environmental specification

Temperature range	-13 to + 131	F
Temperature range	-25 to + 55	°C
Casing class	NEMA4/IP65	
MTBF	50000	Hours

## 3. Mechanical specification

Dimensions. (W x H x D)	15.2 x 15.2 x 4.3	Inches
Dimensions. (W x H x D)	385 x 385 x 110	mm
Weight	< 22	lbs
Weight	< 10	kg
Lock type	Allgon Safety bolts	



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#### 4. Options and facilities

- Fibre Optic Unit (FOU)
- Remote Communication Control (RCC) for wireless connection
- Battery Back-Up (BBU) with either 25 or 50 Ah battery capacity
- Operation and Maintenance System (OMS)
- Dual band
- Repeater to Repeater (R2R) multi drop link for data communication between all type of Allgon repeaters
- Compatible with OMT and OMS software

#### 5. Operation

Set-up and control of the repeater via an OMT (Operation & Maintenance Terminal) software

- PC locally connected via RS232
- PC remotely connected via modem (optional RCC-kit is required)

#### 7. Software requirements

The OMT software package requires at least:

- Windows 95, 98 or NT version 4.0 or higher
- 8 MB of RAM (16 is recommended)
- 4 MB free hard disk space

#### 10. Declaration of conformity

- |                                    |                           |
|------------------------------------|---------------------------|
| - Environmental specification      | ETS300 019-2-4            |
| - Radio Transmission and Reception | ETS300 609-4              |
| - EMC emission and immunity        | ETS300 342-3              |
| - EMC immunity                     | IEC 801-2,4 and 5         |
| - Electrical safety                | IEC publication 65        |
| - UL                               | 1950 third Edition        |
| - UL                               | CAN/CVSA-C22.2 No 950-M95 |
| - FCC                              | 24E                       |