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|---------------------------------------------------|--------------------------|------------------|----------------------------------|----------|-----------|
| Utfärdare/Issued by<br>Kjell Knuutinen            | Datum/Date<br>2000-06-26 | Godkänd/Approved | Dok nr/Doc no<br>ALR4600/001-201 | Rev<br>C | Sida/Page |
| Dok namn/Doc name<br><b>PRODUCT SPECIFICATION</b> |                          |                  | Fil/file<br>123424               |          |           |

## COMPACT repeater with adjustable bandwidth 800 MHz version, iDEN

### 1. Electrical specification

|                                                   |               |     | Remark |
|---------------------------------------------------|---------------|-----|--------|
| Frequency tuning band Up link                     | 806 – 824     | MHz |        |
| Frequency tuning band Down link                   | 851 – 869     | MHz |        |
| Filter bandwidth standard, adjustable             | 0.5 – 19      | MHz |        |
| Filter setting resolution                         | 12.5          | kHz |        |
| Duplex spacing                                    | 45            | MHz |        |
| Gain adjustment range                             | 55-70         | dB  |        |
| Gain step resolution                              | 1             | dB  |        |
| Out of band gain @ 400 KHz off-set                | 50            | dB  |        |
| Out of band gain @ 600 KHz off-set                | 40            | dB  |        |
| Out of band gain @ 1 MHz off-set                  | 35            | dB  |        |
| Output power, PEP                                 | > + 30        | dBm |        |
| Max absolute group delay                          | 6             | µs  |        |
| Noise figure at 65 dB gain, 25° C                 | 7             | dB  |        |
| Maximum input power<br>Typical input power –40dBm | +13           | dBm |        |
| Receiver input port return loss                   | 14            | dB  |        |
| RF-connectors                                     | N-type female |     |        |
| Power supply voltage                              | 85 - 265      | VAC |        |
| Power consumption                                 | 55            | W   |        |

# ALLGON SYSTEM AB



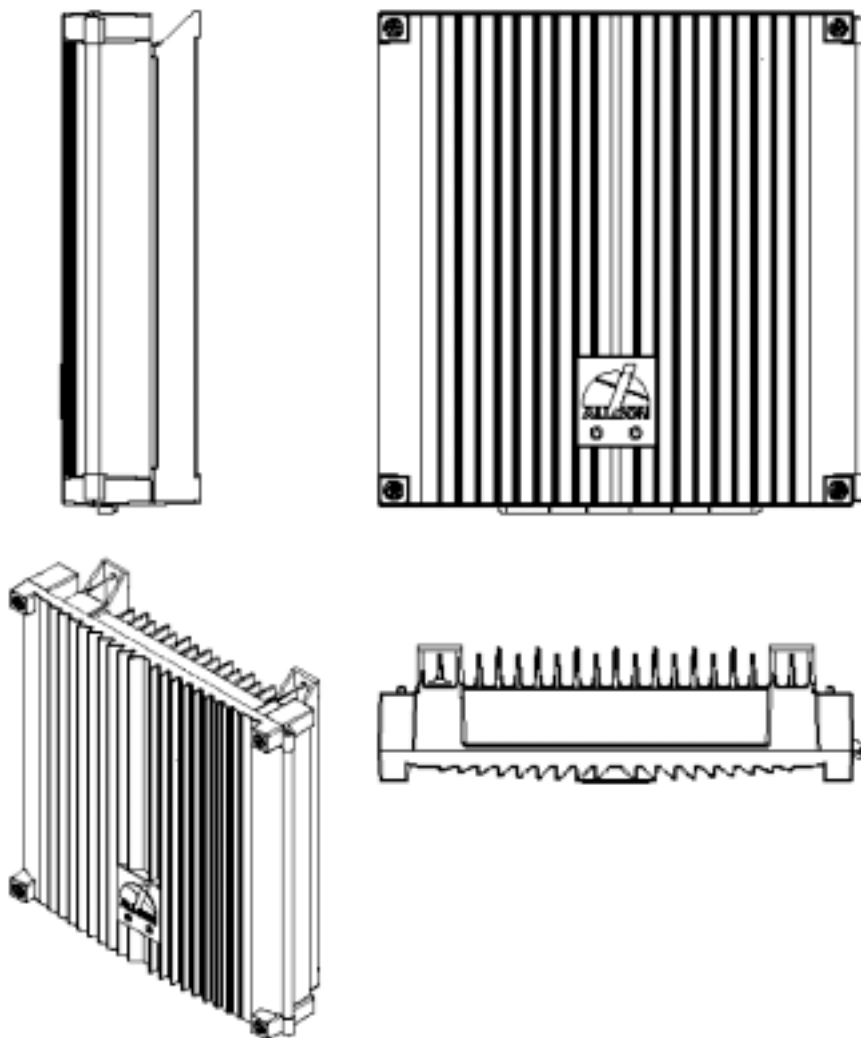
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## 2. Environmental specification

|                   |              |       |
|-------------------|--------------|-------|
| 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

- Fiber Optic Unit (FOU)
- Remote Communication Control (RCC) for wireless connection (TBD)
- 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

- |       |     |
|-------|-----|
| - UL  | TBD |
| - UL  | TBD |
| - FCC | TBD |