



AUDIO & PTT MODEM



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The Audio and PTT Modem (APM) is designed for use in ground to air communication systems that requires long distance remote control of audio, PTT and control signals through a two or fourwire leased telephone line. The system consists of one local and one remote unit. Both units are 1HU high (19 inches) The remote unit will be located together with the radio units and the local unit will be located together with a Voice Switch, ARC or similar.

The APM uses in band tones for transfer of Squelch and PTT. Alarm/Main & Stby and Main/Stby selection uses FSK data. All inputs are opto-couplers working over a range from 5V to 48V. All outputs are dry relay contacts. The local unit does also have a relay output for indication of possible line fault.

The APM has automatic line level compensation to ensure optimal performance (for line loss of up to 20dB) It has a built in power supply that can run on both 110VAC and 230VAC as well as 24VDC with automatic switch over from AC to DC if AC fails. The unit also has a changeover relay for change between main/standby to the antenna.

SPECIFICATIONS

Audio response	+1 / - 3 dB rel. to 1 kHz, 300 - 2900 Hz
Audio output	245mV at 600 Ω (-10dBm)
Audio input	245mV at 600 Ω (-10dBm)
Leased Telephone Line	
Nom. audio	245mV at 600 Ω (-10dBm)
Nom. signalling	122.5mV at 600 Ω (-16dBm)
Signal transferred	PTT (In band tone: 3000Hz) Squelch (In band tone: 3050Hz) Main/Stby (FSK data) Alarm/M (FSK data) Alarm/S (FSK data)
Logic outputs	Relay, dry contact which closes when active
Logic inputs	Optocoupler, operating voltage: 5v to 48v
Changeover relay (only Remote unit)	Antenna connectors: 3 x 50 Ω , N-connector RF power handling: VHF:200W(cw), UHF:150W(cw)
Operating temperature	-20°C to + 55°C
Storage temperature	-20°C to + 70°C
Operating voltage	230 VAC \pm 10% or 115 VAC \pm 10% 21.6 -31.2VDC
Power consumption	< 10 W
Environmental conditions	Operating temperature: -20 to + 55°C Humidity: 90% at 40°C non-condensing
Dimension	44 cm (H) x 48,2 cm (W) x 28,5 cm (D)
Weight	25 kgs

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Agent/Distributor:

Jotron AS reserves the right to change the design and/or specifications at any time without prior notice. Reservations are also taken towards any general errors that may occur.

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CONTACT INFORMATION

Jotron AS
P.O.Box 54
3281 Tjodalving
Norway
Tel: +47 33 13 97 00
Fax: +47 33 12 67 80
sales@jotron.com

Jotron UK Ltd.
Crosland Park
Cramlington
NE23 1LA
United Kingdom
Tel: +44 (0) 1670 712000
Fax: +44 (0) 1670 590265
sales@jotron.com

Jotron Asia Pte. Ltd.
19 Loyang Way
Changi Logistics Centre
Rear Office Block 04-26
Singapore 508724
Tel: +65 65426350
Fax: +65 65429415
sales@jotron.com

Jotron USA, Inc.
10645 Richmond Avenue, Suite 170
Houston, TX 77042
USA
Tel: +1 713 268 1061
Fax: +1 713 268 1062
sales@jotron.com