

Comunica CP+

Intercoms for Cockpit Mounting

The CP+ intercom/radio system is the ideal complete communication system for microlight and light aircraft of all types. It provides you with:

- Superb communication, even in the noisiest climb-out conditions
- DUAL-MODE operation, "INTERCOM" MODE, when both intercom and radio are active and "RADIO" mode, in which the intercom is suppressed for maximum quiet.
- EXTERNAL PTT socket, for use with your PTT where you want it. dual PTT adapter available
- Superb headset comfort, (with helmets too, if you wish)
- Modular choice and buildup of parts to make your individual ideal system
- Simple installation, with your choice of cable lengths to suit your aircraft.
- MUSIC/GPS BEEPS signal input
- Great value and 3-year warranty reliability
- Extreme lightness



ANA2K/RJ/PRO
Active Noise Reduction
headsets



PNA2K/RJ
The quietest Passive
Noise Reduction headset

Choosing your CP+ system buildup:

The CP+ intercom/radio/music interface unit comes with two headset jack socket styles:

CP+/RJ with "RJ45" miniature lightweight plugs. These are the ideal modern headset plugs, tougher, neater, lighter and with extra pins to feed Active Noise Reduction electronics directly from the aircraft power. Comunica make a full range of high performance Active and Passive RJ headsets, see below.

The price is £285

CP+/TJ with "PJ" TWIN JACK sockets for conventional twin plug GA headsets (David Clarke etc). Choose this if you have TJ headsets already. Also if you need to use your headsets in other TWIN JACK aircraft. (We supply superb, economic, TJ headsets too, chosen by the CAA, BA pilots etc, including ANR models, but the RJ styles are best for dedicated light aircraft use.

The price is £310

The CP+'s unique wiring loom means it is quick and easy to install, no soldering required just a screw-driver.

CP+ is compatible with a number of radio's including Icom, Yaesu, Dittel, King & Microair including installed panel mount radio's. With panel mount radio's you can add extra options inc. Master GA sockets, Remote Memory button and Backlight On/Off button.

See overleaf for more information



+44 (0) 208 123 8 241

info@comunica-aviation.co.uk

www.comunica-aviation.co.uk

SALES AND SERVICE FOR COMUNICA BRAND AIRBORNE SPORTS PRODUCTS

Choosing your "CP+" intercom system parts

CP+/RJ HEADSETS: Have been specially optimised for the small aircraft environment. There are (2) models to choose from which are interchangeable. Both models feature:

- Full size ear cups with oil-ring and foam earseals to give maximum passive sound killing and top comfort.
 - Easy-adjust bendy microphone booms.
 - Panasonic PROFESSIONAL noise-cancelling microphones.
 - Personal VOLUME controls.
 - Completely fatigue-proof lightweight curly cords with the neat RJ45 plugs.
 - Choice of (2) headbands:
 - Soft TERRITEX headband or:
 - FOLDING spring headband (ideal for use with our BETA+ helmets)
 - Choice of (2) microphone windshields:
 - MSH/HPS, slim breathshield for closed cockpits.
 - MSH/HPL, high performance large windshield for open aircraft up to ca 90kts.
- PNA2K: This our high performance "Passive Noise Reduction" headset, without ANR electronics.
The price is just £140
- ANR2K/RJ/PRO: This our most powerful "Active Noise Reduction" headset, reducing the low frequency background noise similarly to others' \$1000 offerings! We supply PRO headsets to BAES and the CAA's nav aid calibration aircraft etc. With their maximal noise cancellation comes some extra susceptibility to cockpit pressure "drumming" (like a car window open), so these are best for well sealed cockpits.
The price is just £335

CP+/TJ HEADSETS: You can use any make of "TJ" headset with the CP+/TJ intercom, but sad experience shows that most Microlight, VLA and homebuild aircraft need purpose-designed headgear for the best results in the ambient noise etc. Comunica makes just such headsets, same style as the RJ range, but with amplified mics to match David Clarke etc and TWIN JACK fatigue proof cords. They are of course exceptional when used in big GA planes:

- PNA/GA/TJ, the classic Passive Noise Reduction model.
The price is just £145

- ANA/GA, the Active Noise Reduction model designed for the CAA service (re-ordered 3 times !) and chosen by BA pilots etc with \$1000 performance, it has 30-hour talktime rechargeable batteries in the soft headband. Complete with charger and zip case.
The price is just £POA

AIRBAND RADIOS FOR COCKPIT OR PANEL MOUNTING: For handheld radio's such as the ICOM A3 or A22, a single slim cable connects power and audio signals between the radio and the CP+ intercom unit, made by us to suit your chosen radio position (or trimmed by you if preferred). As the radio is powered through the intercom the radio can be mounted without a battery case taking up less space.

The CP+ is also suitable for Panel Mount radios's such as the compact Microair MA-760 economy panel mount radio or the new Dittel panel mount super-radio with its; small size, big 2-channel display, 10 channel memory recall and Active/Standby channel selection, with remote button control. The full size Icom IC-A200 is available for "export" installation (worldwide except CE) and offers all facilities at professional aircraft level.

PTT BUTTON OPTIONS: You can use your own simple "2-contact MAKE" PTT buttons or fit our neat and "clicky" PTT1's to your sticks, throttles etc. For systems with 2 PTT buttons we supply the neat "CAB/SPLIT" "splitter" unit which connects both PTTs to the CP+ unit with convenient plugs and sockets.

Installing your "CP+" intercom system

As illustrated on the next page, the CP+ intercom/radio system is very simply installed and connected.

1. First site the CP+ unit itself, in the best position for; Plugging in your headsets and, Using the MODE switch. Once your happy with the positioning VELCRO the CP+ unit in place.

A few suggested places are:

- Aft on the controls housing between the seats.
- Overhead above the pilots' shoulders
- Centrally below or low down on the instrument panel

Note: Comunica's neat CABEXRJ45 "RJ" headset extensions can simply be plugged on to the CP+ unit if you wish to plug-in one or both your headsets remote from the main unit.

2. Mount the PTT buttons (The PTT1 buttons will even fit in a 19mm (3/4") control column, with their threaded stems pushed through and nut fastened in, eg, Halford's comfortable bike handlebar grips.

3. Route the PTT cables to meet at the CAB/SPLIT connection unit and fasten them with cable ties etc, well clear of control runs. (If you are connecting on to existing PTT cables, we will supply "stubs" with RJ plugs and a drawing for you).

4. Site and mount the radio in the best position, usually in or beside the panel, with its controls in easy reach of P1.

- The Dittel or Microair should be mounted in the panel in front of P1.
- The little ICOM IC-A3/22 (see front page drawing):
 - May be VELCRO'ed to the panel or a special bracket on the cockpit (or clipped on to a "top hat" mount with its belt clip).
 - May have a right-angle BNC antenna adaptor fitted, allowing neat antenna connection from behind.
 - May have its Comunica power+audio+PTT moulded interface cable fed through neatly from behind.

5. Connect the CP+ radio interface cable, cut to the length you need:

- To the Comunica LOCP/A22 (or/A20) moulded cable loom, which has a simple screw connection terminal block marked with the cable core colours to connect to it.
- To the DITTEL or MICROAIR back connectors (Comunica will make your loom or provide drawings!).
- To the IC-A200 connector loom, as shown in Comunica A200IFA drawing.

6. After checking all connections, installation security, power polarity and, if possible, antenna continuity etc:

- Plug-in the headsets
- With the radio switched OFF, power up the COMMS circuit. The CP+ intercom will turn ON.
- Turn the headset VOLUME controls low and the CP+ Main VOLUME control to max (clockwise).
- Switch to "I'COM+RADIO" MODE and test the intercom, adjusting the headset VOLUME controls.
- Check that in "RADIO" MODE the intercom is muted.
- Check that in "PTT" position, the intercom is active again.
- Switch ON the radio with LOW VOLUME set. Open the SQUELCH to listen to background noise, or listen to transmissions. Adjust the radio VOLUME control for a similar level as the intercom.
- Make check transmissions, if possible first to a colleague on an "free" channel such as 129.90MHz.

Important Notes:

1. With each of the radios, the "+12V" (RED) and "COMMS GROUND" (BLACK) connection wires should be connected directly to the battery terminals by a dedicated power circuit, with a 3 Amp fuse or LOW VOLTAGE circuit-breaker in the +12V line and a "COMMS ON/OFF" master switch.

2. Connect the fitted radio to a well sited antenna with any ground plane specified by its supplier. Try to choose an antenna site which other owners of the same plane have found to work well. Also keep the antenna co-ax run away from all other wiring and as short as possible to reduce pick-up and power loss.



+44 (0) 208 123 8 241

info@comunica-aviation.co.uk

www.comunica-aviation.co.uk

SALES AND SERVICE FOR COMUNICA BRAND AIRBORNE SPORTS PRODUCTS

Using your "CP+" intercom system

1. Don and adjust your headsets as described in Comunica datasheet HSETGENHBA supplied with them. It is important that your headsets are adjusted for size and nested really nicely round the ears.
2. Normally set the CP+ Main VOLUME control to maximum (clockwise looking at the knob). Then, in "I'COM+RADIO" MODE, set the headset VOLUME controls as low as you find intercom speech just clear with maximum background noise. This minimises intercom background noise.
3. Adjust the radio VOLUME control so that received transmissions are about as loud as the intercom. (Please refer to the radio's own handbook for its operating instructions).
4. Practice radio transmissions to and fro, if possible with a colleague with a handheld, using an "free" channel, eg 129.90MHz. Practice the radio work in all conditions, including the noisiest, on climb-out.
5. If you wish to listen to music, plug-in your CD player, Walkman etc with the 3.5mm jack cable supplied. Try both "HEADSET" and "LINE" audio outputs on the CD, aiming to adjust the music VOLUME on the player rather than the CP+.
6. For quietest flight (eg on long trips or when SOLO), switch to "RADIO" MODE, muting the intercom temporarily. The music and radio will both be heard most clearly then.
In "RADIO" MODE, the radio works fully for P1 and P2, both in receive and transmission.

If you have any queries or need advice, please contact us. We can e-mail any drawings and datasheets you want, or post them, just ask!

COMUNICA CP+ INTERCOM FOR PANEL OR COCKPIT INSTALLATION

DITTEL/MICROAIR
or any "installed radio"



with optional:
- remote MEMORY control
- backlighting ON/OFF switch
- "MASTER" TWIN JACK pair

OR

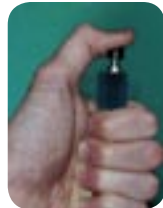
ICOM IC-A3 or IC-A22



LOCP+/A22 easy-connect
POWER & I/COM LOOM

12V power and radio interface cable

PTT1/CP2K stick PTT
buttons or use your own



"P1"

"P2"

CAB/SPLIT
PTT junction unit



Radio PTTs plug



ANA2K/PRO



PNA2K/RJ



VELCRO the CP+ unit anywhere you
choose (We'll make your cables to suit)

Good Flying...WINCHESTER E&OE 10/01/08 CP+HBD.INDD



+44 (0) 208 123 8 241

info@comunica-aviation.co.uk

www.comunica-aviation.co.uk

SALES AND SERVICE FOR COMUNICA BRAND AIRBORNE SPORTS PRODUCTS