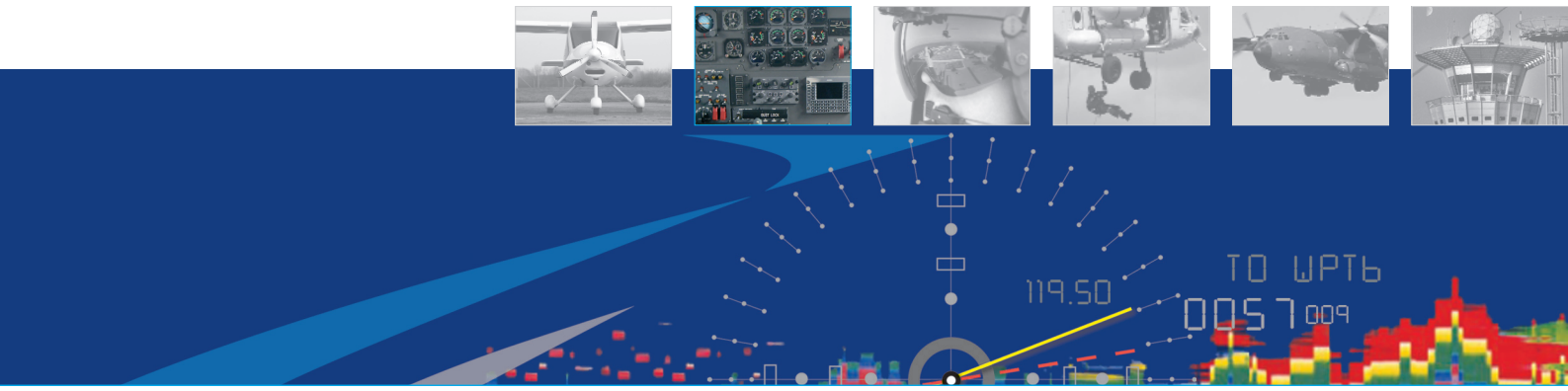
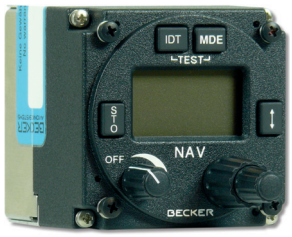


Remote VOR/LOC/GS Navigation Receiver

RN 33XX-(x) / CU 5301-(X)

Prime Line/Navigation



This VOR/ILS receiver enables pilots and installations engineers to customize the VHF radios in any aircraft to provide. The ideal combination of performance and low cost, provides the best value and operating characteristics for any particular aircraft and mission profile.

The system is ideally suited for installations where minimum panel space is to be used. It utilizes a small lightweight CU 5301 control unit, which fits into standard 2 ¼" (57mm) round instrument panel cut-out, and is only 2 ½" deep.

Lightweight remote receivers, with VOR/LOC, VOR/LOC/GS capabilities are mated with this control unit, to complete a system. These eceivers can be installed at any convenient place in the aircraft. The CU 5301 control unit offers a clear, high contrast, double line LCD-display, which is readable under all lighting conditions, even in bright sunlight.

Both active and preset frequencies are displayed, and can be transferred by a single stroke of the "Flip-Flop" button. Up to 20 preset frequencies can be easily entered in channel mode from the front panel, and stored in a non volatile memory. Parallel/seraial outputs are provided for automatic DME channelling. The steering signals and flag drive outputs are compatible with most commonly used CDI, HIS, Flight Director and Autopilot Systems.

All systems will be JTSO certified for either VFR or IFR use in all types of fixed wing and rotary wing aircraft, and comply with the stringent ICAO requirements Annex 10, FM immunity.

For truly compact installations, the RN 33XX receiver systems can be combined with other Becker Prime Line equipment, such as VHF-COM, ADF and ATC transponder presentation in the panel.

The remote receiver units can be controlled by other types of CDU or FMS devices and are ideally suited for use as essential sensors in flight management systems.

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Remote VOR/LOC/GS Navigation Receiver

RN 33XX-(x) / CU 5301-(X)

Prime Line/Navigation

Technical data RN3320-(01) VOR/LOC/GS receiver with VOR/LOC converter:

• Supply voltage:	+13.75 V / +27.5 V
• Current consumption:	≤ 0.42 A / =0.32 A
• Operating temp. range:	-40°C to +70°C
• Strorage temp. range:	-55°C to + 85°C
• Altitude max.:	50.000 ft
• Control interface:	RS 422, serial line
• Dimensions (H x W x D) incl. mounting plate:	139 x 50 x 253 mm
• Weight max.:	0.81 kg
• Frequency range:	
VOR/LOC	108.00 MHz- 117.95 MHz, 200 channels
Glide slope	329.15 MHz- 335.00 MHz, 40 channels
• Channel spacing:	
VOR/LOC	50 kHz
Glide slope	150 kHz
• Receiver sensitivity:	
VOR/LOC audio	-93 dBm ≥ 6dB SINAD
Selectivity:	
VOR/LOC	≥ 65dB for ±50kHz
Glide slope	≥ 42dB for ±150 kHz
• NAV signal composite:	500mV
• VOR bearing error	≥ 2 degrees
• Centering Error LOC	11% Std. Def.
• Centering Error GS	13% Std. Def.
• Outputs:	
VOR/LOC needles	max. 3 imped. 1 KΩ
VOR/LOC flag	max. 3 imped. 1 KΩ
TO/FROM flag	max. 3 imped. 1 KΩ
G/S needles	max. 3 imped. 1 KΩ
G/S warning flag	max. 3 imped. 1 KΩ
DME interface	2 out of 5, ARINC 410
Resolver interface	standard ARINC 407
Audio power	≥ 100 mW into 300 Ω

Technical data Control Unit CU 5301-(1)-101:

• Supply voltage:	+27.5 V DC / 13.75 V DC
• Current consumption without panel lighting:	≥ 60 mA
• Operating temp. range:	-20°C to +55°C
• Storage temp. range:	-55°C to +85°C
• Altitude max.:	50.000 ft
• Interface:	RS 422, serial line
• Dimensions (H x W x D):	61.3 x 61.3 x 62mm
• Weight max.:	0.26 kg

Recommended VOR/ILS components:

• IN 3300-(20)-01/MD200-306	VOR/ILS
• RM 3300-(2)	RMI converter, 3 wire syndro
• RM 3300-(3)	RMI converter, sin/cos AC

Recommended connector kits:

• CK 3305-S	for RN3320-(1)
• CK 3310-S	for IN 3300-(x)-01
• CK 3309-S	for RM 3300-(x)

Applicable documents:

• VOR/LOC/GS	JTSO-C34e/JTSO-36e/ JTSO-2C40c
• Software	ED 12B/DO-178B, software
• EUROCAE/RTCA ED	ED-14c/DO-160c, environment
• BAPT	FTZ 17 TR2010, A131839J
• Homologation:	10.922 / 81 JTSO, LBA

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