BECKER NAV

NAVIGATION

VOR/ILS System NAV 900
(NR 900 + CU 900)

The Becker VOR/ILS NAV 900 System is designed for larger fixed and rotary wing-type aircraft.

Certified by the German authority for civil aviation LBA under JTSO no. LBA.O.10.922/89. the NR 900 VOR/ILS Receiver fulfills the newest requirements of ICAO-Annex 10 for FM immunity.

The NR 900 VOR/ILS Receiver and with its Control Unit CU 900 are especially developed to retrofit the (worldwide in-use) Collins Receiver 51RV-1C and 313N-2 Control Unit.

The Becker NR 900 incorporates frequency-control via Standard ARINC-410 parallel or ARINC-429 serial data bus. Integrated BITE function, i.e. power-on test (P-BIT), continuous test (C-BIT) and on-request test (I-BIT) assure proper function under all circumstances.

Together with the Control Unit Becker CU 900 or a special to-type test equipment (STTE) it is possible to locate failures down to modular level, thus dramatically reducing the mean-time between unscheduled removals (MTBUR).

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AVIONIC SYSTEMS

Short data:

- VOR/LOC Frequency range 108.0 MHz .... 117.95 MHz
  200 Channels, Channel spacing 50 kHz
- GS Frequency range 329.00 MHz .... 335.00 MHz, 200 Channels, Channel spacing 50 kHz
  40 Channels, Channel spacing 150 kHz
- Frequency control ARINC 410, 2 out of 5 Code
- Standard ARINC instrument signals
- VOR Resolver mode 30 Hz or 400 Hz pin programmable.
- VOR Bearing Signal, 3 Wire Synchro.
- MTBF >5000 h
- Housing ½ ATR short, ARINC 404A

General data:

DC-Operating voltage	+ 27,5 V nominal
DC-Current consumption	≤ 1,2A
Operating temperature range	-55 ° ...+ 70 °C
Storage temperature range	-65 °...+ 85 °C
Max. altitude	50 000 ft.

Mechanical data:

Housing	ARINC 404A; ½ ATR short

VOR/LOC Receiver:

Frequency range	108,00 ...117,95 MHz
Channel spacing	50 kHz
Number of channels	200
Sensitivity	≤ -93 dBm for 6 dB (S+N)/N
Selectivity, 50 kHz	≥ 65 dB
FM Immunity	in accordance with ICAO Annex 10 and LBA 15/-602.2/11/94
AF-output power	100 mW into 600 Ω balanced.

Manual VOR Systemfunction:

Sensitivity	≤ -93 dBm
Course error	≤ 2,5 °

Automatic (RMI) Systemfunction:

VOR -Bearing output signal	Standard 3-wire synchro signal 11,8-V-/ 400 Hz max.5 Stand.-Synchro.

Systemfunction GS:

Frequency range	329...335,00 MHz
Channel spacing	150 kHz
Number of channels	40
Frequency response 6 dB	≥ 20 kHz
Selectivity	≥ 42 dB at Δf ± 150 kHz
Sensitivity	≤ - 80 dBm
Center error	≤ 5%Stand.deflection

MTBF:

NR 900-( )	> 5000h

Certification and Regulations:

LBA Certification	LBA.O.10922/89 JTSO
BAPT Certification	A 131839 J

Requirements:

RTCA DO-192	JTSO - C34e
RTCA DO-195	JTSO - C36e
RTCA DO-196	JTSO - 2C40c
EUROCAE MPS1/WG7/70	JTSO - 2C35d
BAPT	FTZ 17 TR2010
Software	EUROCAE/RTCA ED-12B/DO-178B LevelC

Environmental categories:

D2-A(MN)XXXXXXZBABAVAXXX in accordance to EUROCAE/RTCA ED-14C/DO-160 C

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