BECKER AVIONICS

GK615 & GK616

Portable VHF Stations

FEATURES

- 6 W and 10 W RF-power variants
- Battery power supply: 12/24 VDC (maintenance-free, rechargeable)
- Channel spacing: 25 and 8.33 kHz
- Frequency range: 118.000–136.990 MHz
- Socket for battery charging on front panel
- Dual watch function (monitoring two frequencies during TX/RX)
- Selectable and adjustable squelch levels
- Parameter setting via user menu
- 99 free editable memory channels
- Non-volatile memory
- Emergency mode
- 4 fully configurable audio outputs
- Compliant with ETSI standards and type approved for ATM applications
- Available with an EASA/FAA Certified transceiver for airborne usage

AIR TRAFFIC MANAGEMENT

OVERVIEW

Air traffic services require efficient, reliable and user friendly communication equipment. Assembled with quality-proven components, engineered with state-of-the-art technology and driven with a customer-centric philosophy, our radio-communications solutions are meant to be flexible and scalable.

Designed for operations at airfields and airports in a very demanding environment, the GK615 and GK616 portable VHF stations offer latest technology and support all frequency channels in the aeronautical frequency range, adjustable in 25 kHz and 8,33 kHz steps. The user friendly operator menu and the extensive setup possibilities allow a very personal setup for the user. The large, clear and dazzle-free LC display shows the active frequency and either the standby frequency or memory channel.

With an output power of 6W or 10W, the transmitter is strong enough for medium range communications, ensuring a low cost of ownership for the customer. The robust aluminium case includes dry-lead–acid battery technology, charging can be easily accessed via a socket located on the front panel.

The GK615 and GK616 transceivers are also available with an EASA/FAA certified aircraft radio, ideally suited for hot air balloons or as emergency aircraft radios.

More: GT6201 - Ground Transceiver or AR6201 – VHF Transceiver

BENEFITS

- Reduced size
- Low weight
- Robust and field-proven design
- No forced cooling
- No ventilation slots
- Maintenance-free
- User-friendly HMI
- Large, clear and dazzle-free LCD display
- Extensive setup possibilities
- Main control elements easily accessible from the front panel

Becker Avionics GmbH
Germany
info@becker-avionics.com

Becker Avionics, Inc.
USA
info@beckerusa.com

becker-avionics.com

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AIR TRAFFIC MANAGEMENT

TECHNICAL DATA

	Airborne application		Ground-based application	
	GK615	GK616	GK615-E	GK616-E
General data				
Supply voltage	external	external	external	external
	10.0 – 32.0 V DC via charging	10.0 – 32.0 V DC via charging	10.0 – 32.0 V DC via charging	10.0 – 32.0 V DC via charging
	device for 115/230 V AC	device for 115/230 V AC	device for 115/230 V AC	device for 115/230 V AC
	DC power source (car battery)	DC power source (car battery)	DC power source (car battery)	DC power source (car battery)
Frequency range	118.00 -136.9916 MHz	118.00 -136.9916 MHz	118.00 -136.9916 MHz	118.00 -136.9916 MHz
Frequency channels	760, 25 kHz	760, 25 kHz	760, 25 kHz	760, 25 kHz
	2280, 8.33 kHz	2280, 8.33 kHz	2280, 8.33 kHz	2280, 8.33 kHz
Channel spacing	25 kHz, 8.33 kHz	25 kHz, 8.33 kHz	25 kHz, 8.33 kHz	25 kHz, 8.33 kHz
Frequency stability	< 5 ppm	< 5 ppm	< 1 ppm	< 1 ppm
Memories	99	99	99	99
Storage temp.	-55C° to +85C°	-55C° to +85C°	-55C° to +85C°	-55C° to +85C°
Operating temp.	-20C° to +55C°	-20C° to +55C°	-20C° to +55C°	-20C° to +55C°
Max. altitude	35.000 ft.	35.000 ft.	N/A	N/A
Dimensions	85mm x 165mm x 277mm	85mm x 165mm x 277mm	85mm x 165mm x 277mm	85mm x 165mm x 277mm
Weight	approx. 4 kg	approx. 6.5 kg	approx. 4 kg	approx. 6.5 kg
Transmitter				
Output power	≥ 6 W into 50 Ohm	≥ 10 W into 50 Ohm at 24 V DC	≥ 6 W into 50 Ohm	≥ 10 W into 50 Ohm at 24 V DC
Type of modulation	A3E (amplitude modulation)	A3E (amplitude modulation)	A3E (amplitude modulation)	A3E (amplitude modulation)
Modulation	≥ 70%	≥ 70%	≥ 85%	≥ 85%
Modulation input	Dyn. Microphone	Dyn. Microphone	Dyn. Microphone	Dyn. Microphone
Receiver				
Sensitivity	≤ -101 dBm for (S+N/N) ratio of 6dB	≤ -101 dBm for (S+N/N) ratio of 6dB	≤ -101 dBm for a SINAD of 12dB	≤ -101 dBm for a SINAD of 12dB
Squelch	Trigger level adjustable	Trigger level adjustable	Trigger level adjustable	Trigger level adjustable
Audio output	≥ 4 W into 4 Ohm	≥ 4 W into 4 Ohm	≥ 4 W into 4 Ohm	≥ 4 W into 4 Ohm
Audio output	≥ 100 mW into 600 Ohm	≥ 100 mW into 600 Ohm	≥ 100 mW into 600 Ohm	≥ 100 mW into 600 Ohm
Standards	based on AR6201	based on AR6201	based on GT6201	based on GT6201
	ETSO-2C37e, ED-23B	ETSO-2C37e, ED-23B	ETSI EN 300 676	ETSI EN 300 676
	Equip. Class D, 4	Equip. Class D, 5	ETSI EN 301 489	ETSI EN 301 489
	ETSO-2C38e, ED-23B	ETSO-2C38e, ED-23B	EN 62311, 1999/519/EC	EN 62311, 1999/519/EC
	Equip. Class E, 6	Equip. Class E, 7	IEC 60950-1	IEC 60950-1
	EUROCAE/RTCA ED-14E/DO-160E	EUROCAE/RTCA ED-14E/DO-160E	EN 60950-1	EN 60950-2
	EUROCAE/RTCA ED-12B/DO-178B	EUROCAE/RTCA ED-12B/DO-178B		

Becker Avionics GmbH
Germany
info@becker-avionics.com

Becker Avionics, Inc.
USA
info@beckerusa.com

becker-avionics.com