



Mobile VHF/AM Transceiver 8.33kHz/25kHz

GK61X

ATC & Compact Line



Air traffic services require efficient, secure, modern and user friendly communication equipment. Becker's radio systems offer well proportioned solutions for small to medium-sized airports, airfields or airline operations stations.

Assembled with quality-proven components, engineered with state-of-the-art technology and driven with a customer focused 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 transceivers offer latest technology and comfortable operation on all frequency channels in the aeronautical frequency range, adjustable in 25 kHz steps as well as in 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 GK615 and GK616 transceivers are also ideally suited for ballooning and emergency radio in aircraft.

The nicely shaped and sturdy aluminium case integrates a dry-lead-acid battery (12V 2.2Ah) which can be easily charged via a socket located on the front panel.

Available versions:

	Application	Version	Microphone	Antenna	Observation
6 W Transceiver	Airborne	GK615 0622.834-923	1PM415-1 0603.120-350	1A415 0884.294-952	whip antenna and dynamic microphone
		GK615-1 0622.842-923	1PH012 0498.475-951	1A415 0884.294-952	whip antenna and speaker microphone
	Ground	GK615-E 0638.481-923	1PM415-1 0603.120-350	1A415 0884.294-952	whip antenna and dynamic microphone
		GK615-1E 0638.498-923	1PH012 0498.475-951	1A415 0884.294-952	whip antenna and speaker microphone
10 W Transceiver	Airborne	GK616 0638.463-923	1PM415-1 0603.120-350	1A415 0884.294-952	whip antenna and dynamic microphone
		GK616-1 0638.471-923	1PH012 0498.475-951	1A415 0884.294-952	whip antenna and speaker microphone
	Ground	GK616-E 0638.501-923	1PM415-1 0603.120-350	1A415 0884.294-952	whip antenna and dynamic microphone
		GK616-1E 0638.511-923	1PH012 0498.475-951	1A415 0884.294-952	whip antenna and speaker microphone
	Special mission	GK616-21 0637.289-923	1PH012 0498.475-951	1A415-1 0586.137-375	Olive green housing, steel band antenna and speaker microphone

GK61X

ATC & Compact Line

Our mobile radio stations are available in various versions suitable for airborne and ground-based applications and meet following technical requirements and specifications:

	Airborne application		Ground-based application	
	<u>GK615</u>	<u>GK616</u>	<u>GK615-E</u>	<u>GK616-E</u>
<i>General data</i>				
Supply voltage	external 10.0 – 32.0 V DC via charging device for 115/230 V AC DC power source (car battery)	external 10.0 – 32.0 V DC via charging device for 115/230 V AC DC power source (car battery)	external 10.0 – 32.0 V DC via charging device for 115/230 V AC DC power source (car battery)	external 10.0 – 32.0 V DC via charging device for 115/230 V AC 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 2280, 8.33 kHz	760, 25 kHz 2280, 8.33 kHz	760, 25 kHz 2280, 8.33 kHz	760, 25 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.	-55°C to +85°C	-55°C to +85°C	-55°C to +85°C	-55°C to +85°C
Operating temp.	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C
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
<i>Transmitter</i>				
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
<i>Receiver</i>				
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
<i>Standards</i>				
	based on AR6201 ETSO-2C37e, ED-23B Equip. Class D, 4 ETSO-2C38e, ED-23B Equip. Class E, 6 EUROCAE/RTCA ED-14E/DO-160E EUROCAE/RTCA ED-12B/DO-178B	based on AR6201 ETSO-2C37e, ED-23B Equip. Class D, 5 ETSO-2C38e, ED-23B Equip. Class E, 7 EUROCAE/RTCA ED-14E/DO-160E EUROCAE/RTCA ED-12B/DO-178B	based on GT6201 ETSI EN 300 676 ETSI EN 301 489 EN 62311, 1999/519/EC IEC 60950-1 EN 60950-1	based on GT6201 ETSI EN 300 676 ETSI EN 301 489 EN 62311, 1999/519/EC IEC 60950-1 EN 60950-2